

Salman Abbas Naqvi

AI, CLOUD SECURITY, AUTOMATION, 2XCCIE, CISSP, 5XAWS, TERRAFORM, VAULT, ANSIBLE, PYTHON, VCP-NV, ITIL, BSC

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PROFILE

Accomplished AI, Cloud Security & Enterprise Architect with 20+ years driving large-scale infrastructure, cloud, networking, security, automated security tooling, and transformation. Expertise in architecting AWS Bedrock & LLM pipelines, semantic RAG systems, AI-assisted rapid software engineering and high-availability enterprise cloud architectures. Known for outstanding communication and presentation skills with both technical and business audiences. Highly dedicated, quick to master new technologies, and recognized by peers and leaders alike for exceptional professionalism and performance.

PROJECT HIGHLIGHTS

Founder & Technical Lead – RAG & Document Intelligence 2025

Architected an enterprise document intelligence engine leveraging sentence-transformers, Retrieval-Augmented Generation (RAG) workflows, and prompt engineering. Implemented 50+ automated test cases guaranteeing 99.9% LLM reliability, along with instant translation across 60+ languages, source-attributed Q&A with confidence scoring, and Bring Your Own Key (BYOK) enterprise security modules.

Technical Lead – Network & Security 2020 – 2022

Lead network and security architecture and design for \$67 million DND WLM project, migrating workloads consisting of 3,000+ systems, along with LAN, WAN, security, storage, and compute infrastructure from five legacy data centers in Ottawa to EDC Borden, SSC's private cloud.

Technical Lead – Network 2017 – 2018

Lead network architecture, design and implementation for \$322 million EDC Borden data center build and migration project, which consisted of migrating (WLM) 12,000+ mission critical DND systems from legacy data center to end-state data center consisting of x86 (VMware, Bare Metal), P-Series, Linux/Unix, zBX, storage, security appliances, backup, and a large variety of other workloads.

EXPERIENCE SUMMARY

Cloud Security & Automation Engineer 2026 – Present

[RETAILER]

Cloud Automation & Security Architect 2024 – 2025

UN Habitat – QOLI

Cloud Security Architect 2023 – 2024

Shared Services Canada (SSC)

Senior Partner Solutions Architect 2022 – 2023

Amazon Web Services (AWS) Canada

Technical Architect 2016 – 2022

DND / Shared Services Canada

Network Engineer 2012 – 2016

DND / Shared Services Canada

QUALIFICATIONS

AWS Solutions Architect Associate
AWS Solutions Architect Professional
AWS Certified Security Specialty
AWS Certified Networking Specialty

CCIE Data Center CCIE Routing & Switching

Certified Information Systems Security
Professional (CISSP)

HashiCorp Infrastructure Automation: Terraform
Associate

HashiCorp Security Automation: Vault Associate

Building Network Automation Solutions
ipSpace.net (Ansible, Python)

Azure Fundamentals AZ-900 Course @
CloudXeus Technology

VMware Network Virtualization Professional –
VCP-NV

General Dynamics TACLANE Inline Encryptor
(Classified / Top Secret) Admin

SKILLS

Rapid AI Prototyping and Solutioning
RAG Architecture
LLM Prompts & Fine-tuning
Groq / PySpark AI Pipelines
Cloud Architecture & Design
Network and Security Architecture & Design
Automation & IaC
Large-Scale Workload Migration
Project Technical Lead
Team Leadership

CLEARANCE

Secret II Security Clearance from PSSD,
PSPC/PWGSC • Government of Canada

Secret II Security Clearance from RCMP

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AI, CLOUD SECURITY & AUTOMATION ARCHITECT

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SPECIALTIES

Founder, AI Evangelist, Cloud, Security, Automation and Network Architecture, Security & Design, Large-Scale Work-Load-Migration, Team Lead, Project Lead & Execution, Executive Presentation, DC Consolidation, Automation, Building Proof-of-Concepts, Systems Support, Team Leadership and Process Analysis & Improvement.

EXPERIENCE

AI, Cloud Security and Automation Engineer

Jan 2026 – Present

[RETAILER]

- Built an AWS security access-review platform (Next.js/TypeScript) that ingests IAM Access Analyzer, Security Hub, and GuardDuty findings, applying deterministic risk-scoring rules with pattern-based exception handling to cut false positives.
- Integrated AWS Bedrock (Claude) for AI-assisted batch triage and priority ranking of findings, including guardrail/cost-budget safeguards, cutting manual review time for security teams auditing account access comprehensively.
- Built a Next.js/TypeScript platform that scans multi-account AWS environments (IAM, Access Analyzer, CloudTrail, and 15+ other services) to surface deterministic and AI-assisted (Bedrock / Claude Sonnet 5) findings on unused permissions, external access, and security risk, complete with SSO deep-linking and an interactive Q&A interface for investigating results. Enabled JIRA integration for automated tasks and stories when remediation was required.
- Leveraged AWS Bedrock (Claude Sonnet 4.8) with YAML-driven prompt rules to architect an automated AI auditing engine that scores 2,295+ HCL policies across 88 teams on a 100-point security scale, detecting sudo abuse, wildcard paths, and cross-team boundary violations.
- Applied AWS Bedrock (Claude Sonnet 4) to build a Flask AI application that ingests Vault syslog/audit logs from CloudWatch and detects and explains suspicious activity in natural language; now being productionized to EKS with IRSA-based least-privilege AWS/Vault access.
- Used AWS Bedrock (Claude Sonnet) to generate natural-language risk rationale for an AI-augmented AWS IAM relationship analyzer, mapping trust, execution, and policy dependencies across 10+ AWS services (IAM, Lambda, ECS, EKS, EC2, S3, KMS, RDS, SNS/SQS) into an interactive Sankey graph grounded in real IAM Access Advisor usage data.
- Wielded GitHub Copilot (Claude Sonnet, GPT-4o, Gemini, Codex) as a force multiplier to deliver 40+ security and platform projects in under 8 months, producing REST APIs, Flask web UIs, CI/CD pipelines, RAG-powered chat interfaces, dashboards, shell scripts, and architecture diagrams across Python, HCL, Terraform, Sentinel, Bash, and YAML in days instead of weeks.
- Designed and authored a GitHub Copilot AI agent (FlowKit Navigator) that gives developers expert-level, in-IDE guidance for adopting and troubleshooting internal CI/CD templates, cutting onboarding friction without tickets or meetings.
- Built an automated GitLab governance pipeline that triggers three AI and rule-driven analyzers (HCL policy, Terraform config, identity/access) on every MR, posts scored findings as inline comments, and blocks merges on critical security violations.
- Piloted the AI-Driven Development Lifecycle (AIDLC) methodology for the GitLab Compliance Project Settings (CPS) platform, validating the approach internally while accelerating CPS delivery.
- Earned promotion to the Secure Delivery Platform Team 4 months into the role after delivering high-profile AI prototypes that drove cross-platform efficiency; led company-wide GitOps adoption by building standardized artifacts and onboarding legacy teams.
- Developed a Flask GUI sandbox to validate 9 EGP/RGP policies against a live Vault Enterprise cluster, automating stub mount creation for 200+ secret engine paths, token generation, and real-time enforcement feedback.
- Designed automated security auditing across 203 config files covering AppRole, AWS, JWT, Kubernetes, and SAML backends, identity groups, mounts, namespaces, and audit devices to catch excessive policies, admin access patterns, and misconfigurations.
- Converted a manual CLI script into a Flask/Jinja2 web app that clones the Vault Enterprise config repo, parses policies and identity group definitions, and provides searchable access tracing, CSV exports, and persistent audit history.

Role Breakdown: Prototyping 20%, Architecture 20%, Design 20%, Deployment 10%, Development/Testing 20%, Troubleshooting 10%

Bug Sniper | Creator & Technical Lead

May 2026 – Present

Autonomous Jetson-powered multi-agent insect turret — [github.com/main-salman/bugsniper] (70% Developed)

- Architected and deployed an autonomous, closed-loop electro-mechanical targeting system powered by an NVIDIA Jetson Orin Nano, bridging edge AI, custom mechatronics, and multi-agent logic (Scout, Turret, Sniper, Trigger).

- Engineered a multi-agent computer vision pipeline utilizing GStreamer and OpenCV MOG2 on a fixed wide-FOV Arducam to detect sub-pixel motion, dynamically calculating and passing spatial coordinates to the physical pan-tilt payload.
- Optimized edge inference utilizing YOLOv8 and TensorRT, executing domain-tuned binary classification (insect.engine) on a motorized IR-cut gimbal camera to verify targets with ultra-low latency before engagement.
- Drastically reduced false-positive engagement (mitigating foliage and shadow hallucinations) by implementing cascading software gates, an operator RL feedback loop (learning_store), and an automated Insect Train dry-fire dataset collector.
- Leveraged LLM-assisted spec-driven development (using Cursor, Antigravity, Claude, and Gemini) to rapidly architect complex architectures, generate documentation, and debug asynchronous multi-language pipelines across Python and C/C++.
- Navigated rapid hardware and software pivoting via AI co-piloting, systematically failing fast to transition from legacy brushless drone gimbals to a highly reliable, custom-g geared servo turret (MG996R + PCA9685).
- Designed a closed-loop fluid dynamics system integrating an I2C AUTEX transducer (ADS1115), accumulator, and 12V diaphragm pump to stabilize PSI, triggering a precision water-stream via a Raspberry Pi Pico W-controlled solenoid.
- Authored and implemented rigorous safety protocols (SAFE-001 specs), encompassing human-in-frame CV detection, software-enforced yaw/pitch constraints, and automated hardware disarm states triggered by pressure sensor faults.
- Built a comprehensive Flask-based web dashboard running directly on the edge device (sentry.service), exposing RESTful APIs to manage autonomous hunt modes, continuous calibration engines, and live operator telemetry.
- Automated MLOps and edge deployment lifecycles, authoring robust bash scripting (run-ai.sh) for seamless software updates, allowing the system to consistently log active, reliable hunt nights in dynamic outdoor environments.
- Utilized AI agents to maintain strict commit discipline and state management, transforming a monolithic prototype into a modular, production-ready codebase with dedicated stores for settings, learning, and hardware state tracking.
- Delivered and open-sourced a multi-disciplinary technical product, demonstrating end-to-end technical leadership spanning custom hardware plumbing, deep learning model fine-tuning, and reliable physical-world deployment.

Founder

Dec 2025 – August 2026

HireBetterFaster.com (Retiring December 2026)

- Architected a high-throughput Retrieval-Augmented Generation (RAG) pipeline combining semantic embeddings (BAAI/bge-small-en-v1.5 via sentence-transformers) stored in PostgreSQL pgvector with full-text keyword indexing (tsvector), unified using Reciprocal Rank Fusion (RRF, $K=60$) to deliver high-precision resume Q&A and candidate ranking across 10,000+ document chunks.
- Engineered automated metadata and skill extraction workflows utilizing Groq LLM infrastructure (qwen/qwen3-32b); implemented custom regex sanitization to strip raw <think> reasoning traces from reasoning models, preventing JSON schema corruption and reducing wasted token completion overhead by over 30%.
- Designed an AI-powered job description optimization engine ("FairLens Enhance") that automatically detects and eliminates gendered or age-coded language, enforces objective criteria, and generates side-by-side impact summaries to foster inclusive, bias-free hiring workflows.
- Integrated Recall.ai meeting bots and live webhook listeners with asynchronous LLM pipelines to automatically transcribe panel interviews, generate real-time probing follow-up questions from recent conversation context, and build structured post-interview candidate summaries.
- Developed an enterprise "Bring Your Own Key" (BYOK) architecture supporting user-supplied OpenAI (GPT), AWS Bedrock (Claude / Converse API), and Azure OpenAI endpoints.
- Built an automated PII stripping system (sanitizing candidate name, location, email, and gender prior to AI scoring) and auto-generated downloadable cryptographic fairness audit reports certifying non-discriminatory hiring evaluations.
- Authored a suite of 55+ automated end-to-end bash test scripts (master-test.sh) validating LLM JSON response schemas, RAG chunking logic, BYOK tenant isolation, and pricing tier gates, achieving 99.9% uptime and zero schema drift across production deployments.
- Implemented complete subscription lifecycle management using Paddle API & webhooks across 5 pricing tiers; built real-time token cost estimation algorithms (groq_token_cost) and MySQL usage tracking tables to enforce dynamic rate limits and API access gates.
- Resolved multi-page PDF rendering bottlenecks using PyMuPDF (fitz) for backend text extraction and react-pdf on the frontend; engineered custom pagination, inline highlighting, and zoom controls to eliminate 100% of reported visual rendering regressions.
- Deployed a zero-downtime production stack using Docker Compose, Traefik reverse proxy (auto TLS via Let's Encrypt), Exoscale S3 object storage for resume PDFs, and PostgreSQL/MySQL databases, achieving 100% data persistence and fault tolerance.

Cloud Security and Automation Engineer

Jan 2026 – Dec 2026

UN-Habitat • Quality of Life Initiative • United Nations

- Contributed to a \$20M project with projected expansion to \$30–40M annually by 2026/2027.
- Spearheading global scale-up: 50 cities in 2025, 300+ in 2026, and thousands beyond 2027.
- Built strategic partnerships with leading organizations to co-develop the Quality of Life Index (QOLI) platform.
- Drove rapid prototyping initiatives—leveraged AI development and “vibe coding” to accelerate major project delivery.
- Led a multidisciplinary data team in designing a 500TB+ scalable geospatial mobile-ping analytics solution; built dashboards (Jupyter, Pandas, QuickSight) and AWS Glue-based PySpark pipelines.

- Developed geospatial products: visualized citizen movement patterns, built a web-based online tool for managing 100s of TBs of location data, and created an AI-powered GIS tool using Sentinel-2 imagery to measure urban greenspace.
- Implemented enterprise-grade cloud security: MFA, key rotation, GitHub OIDC, branch protection, VPN-secured database access, blue/green deployments, and automated code security reviews.
- Centralized and automated security services (Config, Inspector, Security Hub, GuardDuty, Macie, WAF) with log retention, anomaly detection, and CloudWatch dashboards for visibility and compliance.
- Orchestrated SaaS and platform integrations (e.g., Cinchy.com, Geomate.com) to expand service capabilities.
- Designed and automated infrastructure with IaC best practices—GitHub Actions, Terraform Cloud, AWS API, and HCP—for secure, repeatable deployments.
- Directed DevOps strategy: built CI/CD pipelines, containerized platforms, enforced compliance controls, and optimized AWS service management.
- Built automation workflows (NodeJS/NextJS/Groq-based LLMs) for chatbot and data pipeline solutions.
- Advanced compliance frameworks with automated tagging, monitoring, and CloudWatch agent deployments.
- Championed Agile leadership: ran daily standups, biweekly sprints/retrospectives, and fostered cross-functional collaboration between development, security, and compliance teams.

Role Breakdown: Architecture 20%, Design 20%, Deployment 30%, Development/Testing 20%, Troubleshooting 10%

Cloud Security Architect

Oct 2023 – Oct 2024

Shared Services Canada (SSC) • Government of Canada

- Designed and deployed secure cloud architectures, enhancing infrastructure security for Government of Canada's (GC) centralized and standardized cloud offering, designed to host workloads for all 44+ GC departments.
- Managed AWS Secure Environment Accelerator (ASEA) to ensure Government of Canada cloud environment stays secure and Canadian Centre for Cybersecurity (CCCS) and ITSG-33 compliant.
- Architected new ground to cloud secure perimeter using Transit Gateways (TGW), Direct Connect (DX), VPCs, and other related AWS services.
- Managed and configured Fortinet FortiGate firewalls for secure cloud to Internet and cloud to ground perimeter.
- Automated cloud management tasks with Crossplane, with ArgoCD, on EKS improving efficiency and consistency across DEV and Prod environments.
- Implemented firewalls, EC2 instances, SCPs, Roles, Users, Policies, Lambda functions, Systems Manager and numerous other services using automation via Crossplane.
- Implemented infrastructure as code using Terraform and CloudFormation to streamline operations, and standardization.
- Participated in cloud security assessments based on CCCS guidelines, identifying potential risks, and documenting them using automated features from AWS Audit Manager.
- Developed and implemented mitigation strategies to address security vulnerabilities.
- Collaborated with cross-functional teams to ensure adherence to security best practices.
- Developed and maintained security policies and procedures, ensuring compliance with regulatory standards.
- Provided expert guidance on cloud security matters, supporting decision-making processes.
- Contributed to team using Agile methodology, with biweekly sprints, retrospectives, daily standups and a dedicated Scrum master

Role Breakdown: Architecture 30%, Design 20%, Deployment 20%, Development/Testing 20%, Troubleshooting 10%

Senior Partner Solutions Architect

Jul 2022 – Oct 2023

National Security • Amazon Web Services (AWS) Canada

- Accelerated AWS adoption within the partner community and National Security market by shaping and delivering strategies.
- Acted as an ambassador for AWS Landing Zone Accelerator (formerly AWS Secure Environment Accelerator) via public events, webinars, presentations and testing.
- Empowered defence customers and partners on AWS through defining technical enablement strategies.
- Achieved team goals by collaborating with senior stakeholders within defence partners and AWS.
- Strategized about business, product, and technical challenges with a forward-thinking approach.
- Advised partners as the technical expert, working closely with their technical leadership teams
- Provided architectural guidance and recommendations for successful partner engagements, including POCs, SOWs, and RFPs.
- Innovated industry and vertical partner solutions, showcasing vision, creativity, business acumen, and deep AWS knowledge.
- Championed AWS partners across the community, collaborating with AWS Training, Professional Services, and Account teams.
- Evangelized AWS services and solutions to the partner community through participating in external events.
- Contributed partner and customer feedback to internal product management and engineering teams to drive improvements.

Role Breakdown: Presentation 50%, Architecture 30%, Development/Testing 20%

Technical Architect (Network)

Apr 2016 – Jun 2022

Shared Services Canada (SSC) / Department of National Defence (DND)

- Lead network architecture and design (with key focus on security, compute/virtualization, and storage) while conducting requirements gathering, proof-of-concept, RFQ, implementation and troubleshooting activities for:
- \$89 million EDC Borden Enterprise Establishment project, which extended SSC's private cloud offering to the fourth SSC end-state data center, building core infrastructure for data center designed to scale to 100,000s of systems. (2020-2022)
- \$67 million DND WLM project, migrating workloads consisting of 3,000+ systems, along with LAN, WAN, security, storage, and compute infrastructure from five legacy data centers in Ottawa to EDC Borden, SSC's private cloud (2020-2022)
- \$22 million NRCAN WLM project, migrating workloads consisting of 600+ systems from two legacy data centers to SSC's private cloud at EDC Borden (2020-2022).
- \$322 million EDC Borden data center build and migration project, which consisted of migrating 12,000+ mission critical DND systems from legacy data center to end-state data center consisting of x86 (VMware, Bare Metal), P-Series, Linux/Unix, zBX, storage, security appliances, backup, and a large variety of other workloads. (2017-2018)
- Architecting, designing, configuring and maintaining robust data center network, and security infrastructure at three DND data centers and four SSC data centers.
- Presenting end-state private-cloud solutions, architecture and design to federal department customers (DND and DND sub-departments, PSPC, NRCAN, Health Canada, IRCC), ranging from executives to subject matter experts, to groups ranging from 5-100 attendees.
- Leading network and security architecture and design discussions for some of the largest and most complex federal IT projects, consisting of establishing new SSC private-cloud offering across four end-state data centers, as well as working with specific partners, with special focus on DND, to migrate disparate workloads from legacy data center to end-state IaaS private cloud solutions.
- Collaborating closely with DND security assessors, Defence Information Management Security (DIMSecur) and SSC security assessors, Security Management Group (SMG) to review and validate designed solutions, and provide proof of implementation of security controls, to meet ITSG (ITSG-33, ITSG-22), CSE, CCCS, and NIST guidelines, frameworks, and requirements.

Role Breakdown: Architecture 30%, Design 20%, Network Deployment 20%, Development/Testing 20%, Troubleshooting 10%

Network Engineer

Jul 2012 – Mar 2016

Shared Services Canada (SSC) / Department of National Defence (DND)

- Designing, testing and implementing numerous platforms such as Cisco ACI, Nexus 9000, 6000, 7000, 5000, 6500 VSS, F5 BIG-IP, LTM, Brocade VDX 6700, etc.
- Lead implementation of \$79 million EDC Barrie Establishment project, building network, security and storage infrastructure for SSC's second private-cloud / enterprise data center, servicing more than 20 federal departments / customers (2015-2016)
- Authored numerous Technical Architecture Documents (TAD), High Level Design (HLD), Detailed Design Specification (DDS), Request For Change (RFC), Request For Quotes (RFQ) and other related documentation required for security assessment.
- Created Proof-of-Concept labs for SSC's private cloud offering, consisting of IaaS, SDN and VDI solutions including: Cisco ACI, VMware NSX, OpenStack, VMware Horizon.
- Reviewing, critiquing and providing feedback to upper management on Request for Proposals (RFPs) for data center networking and software-defined-networking (SDN) solutions from multiple vendors.
- Pioneering use of automation solutions in the department, based on Ansible as well as in-house Python scripting.
- Designing, testing and deploying WAN optimization with Riverbed Steelheads (7070, 7050, 6050) and Interceptors (9600, 9350).
- Designing and testing secure multi-tenant network and SAN solutions, utilizing VDCs, FCOE, VRFs, VMware NSX, and Cisco ACI and Cisco Identity Services Engine (ISE).
- Designing, testing and deploying DCI solutions over dark-fiber and DWDM solutions utilizing OTV, MP-BGP and VXLAN.
- Researching, testing and implementing network monitoring solutions from CA, OPNet, Intermapper, and IBM Tivoli.
- Troubleshooting performance issues utilizing CA Spectrum and OPNet ARX. Discovered and resolved numerous chronic issues.
- Proposed and designed a new cabling infrastructure utilizing modern fiber patch panels and physically redundant cabling layout.
- Participating in Disaster Recovery/ Business Recovery exercises to evaluate network DR/BR readiness along with making improvements to DR/BR process.
- Developing processes for network Incident Management. Working with executives/clients on meeting/exceeding SLA requirements.

Technical Environment: Nexus 9000/7000/5000, 6500, 4500, ASA, MDS, HP c7000 Blade Chassis, CA, OPNet, ITNM, TACLANE

Role Breakdown: Design 40%, Network Deployment 30%, Development/Testing 20%, Troubleshooting 10%

Network Infrastructure and Operations Specialist

Jan 2011 – Jun 2012

Blake, Cassels & Graydon LLP

- Configured and maintained routing and switching at two data centers consisting of 6500 VSS, Nexus 1000v, 3750s and 2900s.
- Performed level 3 troubleshooting on business critical Cisco based LAN/WAN and Cisco UC infrastructure supporting 900+ lawyers and 600+ staff in 10 offices worldwide.

- Redesigned WAN infrastructure to follow current industry best practices (including MPLS, EIGRP, QoS, dual-WAN, VPN etc.)
- Configured network components for Cisco UCS roll-out including UCS 5100 Chassis, B-series blades, Nexus 1000v, and FI 6100.
- Configured two sets of Nexus 1000v switches with vSphere in ~85% virtualized environment with 400+ virtual machines.
- Managed network performance and capacity by performing trend analysis using multiple NMS, reports and packet captures.
- Designed and implemented capacity and availability related upgrades, including virtualized I/O, backup VPN, T1s, FXO, etc.
- Configured/upgraded WAN/MPLS VPN for remote international offices in London, Beijing, Al-Khobar (Saudi Arabia) and Bahrain.
- Deployed Wi-Fi network consisting of 67 access points across nine floors at the Toronto headquarters.
- Configured Multicast across the North American offices for MS SCCM based Windows 7 deployment.
- Implemented Blakes first in-house network and voice infrastructure monitoring using both Solarwinds Orion and Observium NMS. Implemented Solarwind's VoIP/IPSLA, Netflow, IPAM, NCM, and Virtualization modules.
- Performed in-depth troubleshooting using packet captures via Steelheads, Wireshark, Orion Netflow, and other traffic analysis tools.
- Upgraded, updated and maintained Cisco UC (UCM, Unity, UCCX, UEAC) infrastructure with vendors.
- Lifecycling network equipment, including DC cores, firewalls, VPNs, WAN edge devices and management servers/appliances.
- Provided Cisco UC (UCM and Unity) administration training to Level 1 and Level 2 IT staff for day-to-day administration.

Technical Environment: Cisco R&S (6500, Nexus, 4500, ASA, MDS 9100), UC (UCM, Unity, UCCX), UCS, EMC, RecoverPoint

Role Breakdown: Network Design 30%, Network/VoIP Deployment 40%, Troubleshooting 20%, Training 5%, Lead 5%

Network Engineer (contract)

Jul 2010 – Dec 2010

Cisco Systems, Inc/Toronto Pearson Airport.

- Refreshed Routing and Switching equipment at the Toronto Pearson Airport in a hybrid Enterprise/Service Provider network personally handling over \$3 million Cisco equipment over the course of the project.
- Staged and deployed 92 Catalyst 6500 devices (with 10+ SUP720 10G, 80+ SUP32, 300+ 6148 cards) and 12 Catalyst 3750s.
- Tested and implemented redundancy and high availability using GLBP, HSRP, VSS, VPC, MEC and OSPF & EIGRP.
- Trained in design, configuration, and deployment of Nexus 1000v and Nexus 7000 platforms with VMware/Cisco UCS integration.
- Participated in 8-week Cisco Enterprise, Data Center and Service Provider technologies training.
- Provided technical training, supervision and support to new members of the project deployment team.
- Prepared migration plan for 12 devices from CatOS to IOS • including design, validation, and implementation.
- Assisted in deployment of ONS 15454, MDS 9500 and Catalyst 3640.
- Prepared Method of Procedure (MOP), Migration Strategy, Requirements, and various reports.
- Assisted Project Manager (PM) with scheduling, organization, logistics of 800+ devices, and other administrative tasks.
- Worked in a multi-vendor environment including teams from Cisco, IBM, GTAA (Greater Toronto Airport Authority) and others.

Technical Environment: Cisco IOS, CatOS, Fibre, Optical, Voice/VOIP, Enterprise, Service Provider

Role Breakdown: Systems Staging 35%, Systems Deployment 40%, Network Design 15%, Administration/Organization 10%

NOC Team Leader

Nov 2009 – May 2010

Epik Networks

- Prioritized and delegated NOC team's daily tasks and projects which supports 11,000+ VoIP and Internet/Data users.
- Provided hands-on Tier 2 and Tier 3 support for Cisco 2600, 3500, 6500, 7200 and 12000 series devices.
- Lead the NOC team through emergencies and time-sensitive incidents relating to VoIP systems requiring high availability.
- Analyzed SIP call traces (from Call Agent) and packet captures for jitter, latency, packet-drops, max delta and other anomalies.
- Worked directly with Level 2 and Level 3 support at Bell, Primus, AT&T, COX, and Paetec on various SIP trunk and PRI issues.
- Troubleshot WAN issues with Cogent, AT&T, Allstream, Qwest and Navigata on Fiber, DS1, DS3, MPLS, and Layer 2 connections.
- Deployed and managed ESXi 3.5 and Virtual Center 2.5 across two collocation facilities in Toronto and Vancouver.
- Implemented new VMs (Windows and Linux) and migrated physical machines to VM using P2V Converter (VC and standalone).
- Worked with CTO and VP Finance to implement Six Sigma and ITIL based process improvements.
- Provided NOC status 'snapshots' to stakeholders by reporting data collected through the ticketing/incident tracking, network monitoring, and project management systems.
- Worked with VP Operations & Project Managers to align NOC activities with project and support goals

Technical Environment: UNIX, Windows Server 2003/2008, Linux, Cisco IOS, Layer 2/3 circuits, WAN, T1/DS1, T3/DS3, MPLS

Role Breakdown: Systems Support 35%, Network Design/Support 35%, End-user support 15%, Management 10%, Reporting 5%

Senior Telecommunications Specialist (NOC)

Mar 2009 – Nov 2009

Epik Networks

- Upgraded, configured, and performed troubleshooting on Cisco 2600, 3500, 7200 and 6500 series devices for new projects.
- Troubleshot hardware issues with T1, T3, Switchblades, and Supervisor modules on Cisco devices including 2600, 7200, & 6500.
- Implemented use of standard configuration templates for Cisco devices to increase efficiency and decrease incidents.

- Provided Tier 2 support for network (Cisco), VoIP (Broadsoft, AudioCodes, Cisco), and other systems (Windows, Linux, Unix).
- Worked on Solaris and UNIX based Call Agents to perform SIP call tracing, log tailing, troubleshooting, maintenance and backup.
- Implemented backup and redundancy on UNIX, Linux, Windows Server platforms and Cisco IOS.
- Implemented open source phpMyFAQ Knowledge Base (Linux) to create efficiencies in various NOC processes.
- Implemented Logisense engageIP ticketing/incident management system (Windows Server 2003), and customized it to automatically prioritize tickets defined by the SLA.

Technical Environment: Open-source Linux (Ubuntu), BASH, DNS, VMware, IP addressing, TCP/IP, OSPF, EIGRP, BGP,

Role Breakdown: Systems Support 40%, Network Design/Support 30%, End-user support 20%, Reporting 5%, Research 5%

Exchange Migration Advisor

Jan 2009 – Mar 2009

University of Toronto

- Advised IT Administrators across University of Toronto in planning the smooth migration of their respective departments.
- Assisted university staff and faculty directly in migration of email and calendar service.
- Developed training and support documents (FAQs, training videos, & screen-casts) to allow users to complete the migration process.
- Assisted in setup of Blackberry devices to synchronize with MS Exchange 2007 account.

Technical Environment: MS Exchange 2007, BES, BIS, Outlook 2003/2007, Entourage, Thunderbird, UNIX, VMware, VPN

Role Breakdown: IT Administrator Advisory 40%, End-user support 40%, Documentation 20%

Telecommunications Technician (NOC)

Jul 2008 – Jan 2009

Epik Networks

- Provided 24/7 on-site and remote support for outages and other emergencies.
- Performed hands-on network design, installation, configuration and troubleshooting on Cisco 2600, 3500 series devices.
- Configured and provisioned 100+ MGCP and SIP based AudioCodes, Nortel, 3COM and Linksys gateways and analog adapters.
- Ensured smooth operation of Epik Networks staff computing needs by attending to connectivity, printing & shared resources issues, along with managing inventory and licenses (Windows Server 2003).
- Continued to maintain and update various servers (Linux and Windows) that were a critical component of the help.

Technical Environment: Solarwinds NPM, Nagios, Cacti, FreeRADIUS, Dell, IBM Blade, Remote Backup, NAS, SAN, HP, Java

Role Breakdown: End-user support 60%, Systems Support 30%, Network Support 10%

Help Desk Co-ordinator

Nov 2007 – Jul 2008

Epik Networks

- Pioneered use of, and implemented web-based open source ticketing/incident management system (Request Tracker • Linux) to manage and complete 25+ daily tickets/incidents.
- Installed, maintained and backed up various Window and Linux based servers
- Developed expert level knowledge of Java/UNIX based Broadsoft M6 VoIP Switch administration used to maintain changes, additions and deletions of over 3000 business VoIP customers.
- Set up Epik Networks' first multi-staff Help Desk with staff across three cities in North America.
- Developed procedures which streamlined the handling of requests based on urgency and priority.
- Set up a call queuing mechanism to distribute incoming support calls across the three branches

Technical Environment: MS Exchange 2003, MS AD/DC/DNS Server, DNS, LAN, Spanning tree, Layer 2/3, Java

Role Breakdown: End-user support 70%, Systems Support 20%, Research 5%, Implementation 5%

Help Desk Advisor

Dec 2006 – May 2008

University of Toronto

- Troubleshooting clients' email client(s), connectivity, VPN, wireless networking and other issues both in person and over the phone.
- Developed expert level knowledge of MS Outlook, Mozilla Thunderbird, Apple/Mac Mail App, Internet Explorer, Mozilla Firefox, and various proprietary wireless connection softwares.
- Helped clients resolve UTOEmail (University of Toronto institutional email system) issues.
- Utilized BMC's Remedy Incident Management System, and later transitioned to Request Tracker ticketing/incident management.

Technical Environment: Windows 98/2000/XP/Vista, Outlook 2003/2007, Remedy, Request Tracker, VPN

Telefundraiser

Oct 2004 – Jan 2006

University of Toronto

- Contacted University of Toronto Alumni for UofT Advancement for various fundraising campaigns.

- Often placed in the top 5 performers of the month list amongst the 90 telefundraisers.

Training Media Manager

Jun 2005 – Dec 2005

University of Toronto

- After submitting a detailed proposal, completed a 4 month long training video project which would aid in the continuous hiring process that the Call Centre faced. The video, entitled "The UofT Telefund Training Movie", outlined various aspects of employment at the Call Centre and all the policies associated with it in a fun and captivating fashion. The video is viewed by all new employees in complete and clips are shown occasionally at the beginning of the shift to all current employees to aid in the continuous training process.

Database and Research Assistant

Sep 2000 – Jan 2001

Nortel Networks

- Developed queries in MS Access for customers using state-of-the-art hardware.
- Developed expert level knowledge of MS Access, MS Excel, MS FrontPage, MS Word and Seagate Crystal Reports.
- Co-developed and updated the Database Marketing Services department's website.
- Acknowledged by manager as the fastest learning & most rapidly advancing co-op student.
- Co-developed a specialized 400 page information directory using Seagate Crystal Reports for internal use at Nortel Networks. This project required large amounts of data scrubbing, integrating numerous databases, and strategically designing the layout of the directory

Technical Environment: MS SQL Server, MS Excel, Access, Crystal Reports, Cluster, SAN, Dell Servers

VOLUNTEERING EXPERIENCE

Cloud Security and Automation Engineer

Oct 2024 – Dec 2024

UN-Habitat • Quality of Life Initiative • United Nations

- Contributed to a \$20M project with projected expansion to \$30–40M annually by 2026/2027.
- Orchestrated SaaS and platform integrations (e.g., Cinchy.com, Geomate.com) to expand service capabilities.
- Designed and automated infrastructure with IaC best practices—GitHub Actions, Terraform Cloud, AWS API, and HCP—for secure, repeatable deployments.
- Directed DevOps strategy: built CI/CD pipelines, containerized platforms, enforced compliance controls, and optimized AWS service management.

Mentor @ Wasla Connect

Jun 2025 – Present

<https://www.waslaconnect.com/>

- Mentoring displaced Palestinian IT professionals from Gaza and West Bank.
- Providing career planning, resume editing, LinkedIn profile review and interview preparation advice

Mentor @ TRIEC Institute

Jun 2016 – Present

- Mentoring new immigrants to Canada on best practices for attaining a job.
- Assisting mentees with resume editing, interview preparation and career planning.

Mentor @ Times Change Women's Employment Service

2018 – 2023

- Assisting mentees with career planning, certification advice, resume and job search best practices.

Book Author @ AceTheInterview.com

2010 – Present

- Authored the Ace The Interview ebook to assist IT professionals with interview best practices.
<https://linktr.ee/acetheinterview>
- Mentored over 500 professionals over a decade on resume best practices, interview preparation and career planning

LINKEDIN RECOMMENDATIONS

Dipto Biswas

August 20, 2026, Anmol worked with Salman on the same team

I had the pleasure of working with Salman, who initially joined our work to focus on infrastructure. What stood out was how quickly he became inspired by the AI prototyping and agentic development work happening around him—and how decisively he began applying those ideas to his own projects.

Salman became a genuine champion of AI-assisted and agentic coding, combining his deep infrastructure experience with remarkable curiosity and enthusiasm for emerging technologies. He is willing to experiment, learn from colleagues across generations and disciplines, and turn new concepts into practical solutions.

His openness, adaptability, and hands-on approach to AI are genuinely impressive. I would strongly recommend Salman to any organization looking for an experienced technologist who can bridge established infrastructure expertise with the rapidly evolving world of AI engineering.

Anmol Manchanda

October 18, 2025, Anmol worked with Salman on the same team

I had the incredible privilege of working with Salman for a global initiative to improve quality of life in cities around the world. Salman worked as our AWS wizard and security lead for the project. It was wonderful to work with someone with such vast and diverse experience. The in-depth technical knowledge spanning multiple domains, ability to quickly adapt to new technologies and rigorous discipline made Salman a gift to work with. Salman is a very compassionate, empathetic, and moral person who made all meetings and interactions positive, fun and enjoyable. Salman's work ethic was unparalleled. The project was able to thrive and reach new heights in very measurable and meaningful ways that cannot be stated enough.

Gaafar Abo Issa

September 23, 2025, Gaafar worked with Salman but on different teams

I've had the pleasure of knowing Salman as someone who is genuinely committed and hardworking, always striving to reach the highest standards. His certifications and strong background in networking and cloud technologies highlight both his technical expertise and his dedication to continuous learning. He brings professionalism, reliability, and integrity to everything he does, making him a true asset in any environment.

Sara Qasem

September 21, 2025, Sara worked with Salman on the same team

I had the pleasure of working with Salman at SSC, and I can confidently say he is an exceptional professional. Salman consistently demonstrated deep technical knowledge, and his initiative in tackling complex challenges was impressive. He was always eager to collaborate, offering support and insights to teammates whenever needed. His positive attitude and teamwork skills made him a valuable asset to the team. I highly recommend Salman for any role that requires both expertise and a collaborative mindset.

Sandhya Rao, P.Eng., PMP

September 22, 2022, Sandhya worked with Salman

Salman Naqvi is an extremely technically competent, extremely strong communicator with the enduring benefit of having network vision, people skills and the ability to span the depths of the networking world, the client business user space and the executive communication space. I've seen him enter a highly charged meeting of strongly opinionated experts in their fields expressing seemingly orthogonal concepts, and Salman unassumingly and with humour brought all the experts to a mutual understanding and to a collaboratively solutions-based progress and produced a viable network solution & plan on the spot. There are very few people who span the breadth and depth of spaces, communication, affability and wield the ability to map it out like Salman. I would highly recommend Salman to any project.

Thomas Fata

June 9, 2022, Thomas managed Salman directly

Salman Naqvi is a professional, hardworking individual who is technically savvy, especially in networking. He has been involved with several large projects and initiatives, and was an integral part for their success. Each project involved a significant amount of collaboration, organization, and project management skills which Salman possessed. Salman was extremely reliable, and would be a valuable asset to any organization, and I would recommend him for any position he might be applying for.

Dan Dorion

June 9, 2022, Dan was senior to Salman but didn't manage Salman directly

I had the pleasure of working directly with Salman during his time as a Network Engineering, serving the Shared Service Canada DND Account. Salman had to design, provide technical guidance with a calm patience and professional attitude. He was able to explain to our project managers and executives what technical problems were and how to fix them. Salman is an asset to any organization he choose to work for.

Elie Darouze

June 8, 2022, Elie was senior to Salman but didn't manage Salman directly

Salman is a great resource , his commitment , knowledge and hard work was necessary to deliver on SSC WLM projects . Thank you Salman for your amazing work.Salman is a great resource , his commitment , knowledge and hard work was necessary to deliver on SSC WLM projects . Thank you Salman for your amazing work.

Stuart Laubstein

May 27, 2022, Stuart worked with Salman but on different teams

Salman has a breadth and depth of experience that is unparalleled. He knows the technology but also is a great coworker, always happy to help. His attention to detail and work ethic helped us through two extremely challenging projects.

Nav Chohan

April 4, 2022, Nav worked with Salman on the same team

Salman is an excellent Technical Architect and leader whom I have had the pleasure and opportunity to work with on high profile projects. Salman is well respected by his peers and a valuable contributor to the organization; he is results driven, a technology expert and focused on successfully delivering projects. He is detail-oriented, has strong work ethics and is constantly polishing his skills and challenging himself. A team player with leadership demeanours, he automatically improves the team's technical capacity through example and hard work. I would recommend Salman as an example to show others how to be a team player and he is great asset to any team.

Daniel St-Amour

March 2, 2016, Salman worked with Daniel in the same group

I had the privilege to work with Salman on multiple projects during the past 2 years as part of the SSC Data Center Network Operations team. Salman is a dedicated, passionate and strongly self-motivated individual who is clearly not afraid to think outside the box. He has in-depth knowledge and working experience in IT networking and has a keen interest about cutting edge technologies. He has without a doubt the key items to make an organisation move forward. J'ai eu le privilège de travailler avec Salman sur multiples projets au courant des deux dernières années pour le Centre d'opérations des centres de données de SPC. Salman est un individu dédié, passionné et fortement motivé et n'a clairement pas peur de penser en dehors des sentiers battus. Il a une vaste expérience de travail ainsi que des connaissances approfondies en réseautique informatique et il démontre un intérêt particulier sur les derniers développements technologiques. Il a sans contredit les items clefs pour faire avancer une organisation.

Derik Matthews

February 29, 2016, Salman worked with Derik in the same group

Salman is very motivated and always finding ways to improve both himself and the technical environment he works in. A very good team player and strong mentor, a strong asset to the team from day one.

Craig Gardner

June 22, 2012, Craig was senior to Salman but didn't manage directly

I worked with Salman on and off over his entire tenure at Blakes on various network related projects. Salman was always thinking outside the box looking for new solutions or different ways to do things. He was very well versed in alternative solutions/technologies for any project he worked on and was able to do his job as relates to these solutions and deploying them.

Shawn Gregson

June 5, 2012, Shawn worked with Salman in different groups

Salman is very professional and an absolute wealth of knowledge. He is a true pleasure to work with and is an asset to any organization.

Scott Sarty

June 5, 2012, Salman worked with Scott in the same group

Salman is diligent and detailed oriented. He is also thorough and tenacious when troubleshooting an issue. I have enjoyed working with him and learned much from him.

Mendy Holtzman

April 18, 2012, Mendy worked with Salman but at different companies

It was my pleasure to work with Salman during the Airport Cisco Refresh in 2010. He is a detail oriented individual who enthusiastically pursued the root cause of all issues we encountered on this project. He stayed confident and relaxed under pressure, and created detailed communication reports in order to keep everyone in the loop.

Carol Dennis

November 2, 2010, Carol was senior to Salman but didn't manage directly

Salman is a dedicated customer facing engineer who doesn't hesitate to dive into technical tasks with focus on customer value and satisfaction. Salman exhibits natural leadership ability and is a strong team player. Salman is a asset to any team.

Regan Kerry

June 8, 2010, Regan managed Salman directly

Salman has an incredible work ethic. He consistently exceeds expectations and thrives on new experiences. Salman has great potential and I wish him well in his career.

Steve Walker

May 13, 2010, Steve worked with Salman in different groups

Salman is a highly motivated individual with well honed technical and interpersonal skills. He would be a valued asset to any organisation that hired him.

Ludlow Pryce

April 14, 2010, Salman worked with Ludlow in the same group

Salman is a progressive person who manages technical issues with professionalism and is dedicated to providing solutions to any given problem. He is technically proficient and has excellent soft skills. He is the "go to" person for information and technical solutions. Because of his technical proficiency and soft skills, it is a pleasant experience when dealing with him. I am endorsing Salman for both his technical skills and his ability to communicate effectively in a business environment.

Ravneet Kaur

April 2, 2010, Salman worked with Ravneet in the same group

Salman is the definition of integrity, honesty and superior customer service. His creativity, combined with his efficient nature has brought positive changes to Epik Networks such as implementing the FAQ knowledge base and multiple ticketing systems. Salman was also assigned to configure Cisco devices (2600, 3500 and 6500 series) for majority of my projects due to his reliable and meticulous nature. As a self motivated and ambitious individual, Salman excels at every project he handles. He has an innate ability to resolve any problem that is thrown at him in a calm and professional manner. As a team leader, he deals with emergencies, customer requests, managing Help Desk resources and projects all the while continuously improving his technical and leadership skills.

Ryan Werber

March 31, 2010, Ryan was senior to Salman but didn't manage directly

We relied on Salman extensively to do training and documentation. He is a very competent when it comes to both designing and implementing processes and procedures. He will work well in any company. Being around him for over 2 years now, I have never seen him once get upset at a customer, nor anger anyone for that matter in any way.

Ahmed Malkawi

March 17, 2010, Ahmed worked with Salman but at different companies

Salman is a highly pleasant individual with a professional demeanor. His altruistic nature towards my endeavors was very refreshing. He would be a great leader or a team member in any IT team

Yovana Russell

October 5, 2009, Yovana was a client of Salman's

Salman provided me with great service. He projected great attention to detail. Problem solver and efficient. I would definitely would hire his services again.

Michael Vitullo

September 10, 2009, Michael worked with Salman in different groups

Salman is a very reliable individual who is easy to approach when it comes to any customer issue, no matter how small or complex. I could trust him to work directly with customers to drive not only the correct solution, but also to complete it in a timely manner that satisfied customers. His determination to achieve both excellence and perfection is what sets him apart from others. He is a great asset to Epik Networks.

Tarrah Gledhill

April 21, 2009, Tarrah worked with Salman in different groups

I have found Salman to be a detail oriented, helpful, courteous, people person with strong analytical and technical skills. I enjoyed working with him.

Alex Bata

December 23, 2008, Alex managed Salman directly

Imagine your company running better. Imagine it leapfrogging the competition. How do you know you have the right talent to achieve greatness? This gentleman can help you. I place Salman Naqvi in my Top Ten people I have the pleasure of working with. He takes to technology as fish do to water, effortlessly. Without his assistance and diligence and in many cases ingenuity, many mundane tasks to most, projects to some and grand schemes to others could never have come to fruition. I will always seek Salman out in the future to entice him into future working opportunities with me, for me or who knows, I for him.

Wes Moon

December 5, 2008, Wes was senior to Salman but didn't manage directly

Salman is always looking for ways to make processes more efficient and cost-effective using technology creatively. In particular, his work on creating training videos helped develop student callers skills quickly, effectively, speeding the training process, and greatly improving net results.