

# Muhammad Saad Shabir

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## EDUCATION

### Carleton University

Bachelor of Information Technology - Network Technology

Ottawa, ON

Expected Apr 2027

## COURSEWORK

**Network & Security:** Advanced Routing & Switching, Network Security, Automation, Network Management, Secure Mobile Networking

**Programming & Systems:** Data Structures, SQL & Databases, Web & Server Development, DevOps & System Foundations

**Emerging & Cloud Technologies:** Wireless Networks, Real-Time Systems, Cloud & Virtualization, IP Architectures

## EXPERIENCE

### AriesTECH

Network Technician

Ottawa, ON

Jan 2024 – Apr 2025

- Installed, configured, and maintained Cisco routers & switches; designed Layer 2/3 segmentation (VLANs, trunking, inter-VLAN routing) and implemented static, RIP, and OSPF routing to optimize traffic flow and improve security across the LAN/WAN.
- Ensured approximately 99% network availability via proactive monitoring, rapid diagnostics (using packet-analysis / IOS tools), and regular preventative maintenance (firmware upgrades, ACL reviews, configuration backups).

## SELECTED PROJECTS

**ZTAP** | Go, eBPF, Policy-as-Code, Python, Hybrid-Cloud, Prometheus, Grafana

- Developed a zero-trust micro-segmentation CLI tool enforcing kernel-level network policies (eBPF), enabling hybrid-cloud segmentation and policy-as-code enforcement across environments.
- Architected distributed cluster coordination, kernel-level packet filtering, and compliance-ready access control (aligned with NIST SP 800-207) to provide a minimal-dependency binary for secure network segmentation.

**pci-segment** | Go, eBPF, YAML, CLI, AWS/Azure

- Built a PCI-DSS-focused network segmentation tool with policy-as-code enforcement, kernel-level eBPF filters, and cloud-sync support to maintain compliance across hybrid environments.
- Delivered auditor-ready compliance reporting and automated segmentation enforcement, enabling secure isolation of cardholder-data environments and simplifying PCI-DSS compliance workflows.

**personal-ai-cli** | Python, Local LLM (Ollama), RAG, CLI

- Built a self-hosted personal AI chatbot enabling secure document querying of local files (txt, md, pdf) using retrieval-augmented generation with no cloud dependency for complete privacy.
- Implemented embedding generation, vector storage, and local LLM integration to enable fast, private document retrieval and search.

**CloudChat** | Next.js, React, TypeScript, Clerk, Web (Full-Stack)

- Built a real-time social feed application featuring posts, replies, likes, infinite scroll, and optimistic UI updates with Clerk authentication.
- Developed frontend components and backend API routes for seamless real-time interactions and responsive design.

## SKILLS

**Languages:** Go, Python, C/C++, SQL, JavaScript/TypeScript, Bash, YAML

**Tools & Technologies:** React.js, Next.js, Node.js, Docker, AWS, Git, Linux, eBPF, Prometheus, Grafana, Wireshark

**Networking & Security:** Cisco IOS, VLANs, Inter-VLAN Routing, OSPF, ACLs, TCP/IP, Zero Trust, Microsegmentation, PCI-DSS

**Concepts:** DevOps, Data Structures, Algorithms, Machine Learning, Cloud Computing, Policy-as-Code, Observability