Muhammad Saad Shabir

 github.com/msaadshabir   msaadshabir.vercel.app   linkedin.com/in/msaadshabir   saad.shabir@hotmail.com

EDUCATION

Carleton University — **Ottawa, ON**
Bachelor of Information Technology - Network Technology — *Expected April 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 — **Ottawa, ON**
Network Technician — *January 2024 - April 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 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 unified, minimal-dependency binary for secure network segmentation.

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

- Built a PCI-DSS–focused network segmentation tool: implemented policy-as-code enforcement with 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 terminal-based, self-hosted personal AI chatbot enabling secure document querying of user's own files (txt, md, pdf) using retrieval-augmented generation and no cloud dependency, privacy-first.
- Implemented full-stack logic for embedding generation, vector storage, local LLM interfacing, and prompt/response handling via CLI to deliver quick, private access to knowledge and document search.

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

- Built a modern real-time micro-blogging / social-feed clone (tweets/posts, replies, likes, real-time updates, infinite scroll, optimistic UI) with user authentication using Clerk.
- Developed full-stack UI + backend integration to support user flows, dynamic updates, and responsive web design — delivering a smooth, client-side experience for end users.

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