Muhammad Saad Shabir

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EDUCATION

Carleton University   **Ottawa, ON**
Bachelor of Information Technology - Network Technology   *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   **Ottawa, ON**
Network Technician   *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