

Moosa Alam

437-212-7641 | malam20@uoguelph.ca | [linkedin.com/in/moosa-alam](https://www.linkedin.com/in/moosa-alam) | github.com/kenjiifx | moosaalam.vercel.app

EDUCATION

University of Guelph

Bachelor of Computing, Computer Science (Co-op), Specialization in Cybersecurity

Guelph, ON

2025 – 2030

TECHNICAL SKILLS

Languages: C, Python, Java, SQL, Bash, JavaScript

Systems & Infra: Linux, Docker, GitHub Actions CI/CD, AWS (EC2, S3, IAM), Terraform, pthreads, BSD sockets

Observability: Prometheus/Grafana, ELK (Logstash/Kibana), PostgreSQL, FastAPI/Flask, pytest

EXPERIENCE

Software Engineering Intern

Vibez Music

Toronto, ON

Jan 2026 – Apr 2026

- Improved internal system throughput by **40%+** by designing and deploying Python-based backend services and automation tooling to eliminate manual operational bottlenecks.
- Reduced incident triage time by implementing strict request validation, structured JSON logging, and standardized error handling, improving observability and debugging efficiency.
- Owned backend delivery pipelines by integrating CI/CD workflows and maintaining reliable service deployments used by cross-functional teams.

Freelance Web Developer

Self-Employed

Remote

Jun 2024 – Present

- Delivered **4+** production-grade web systems end-to-end, handling system design, performance optimization, and deployment.
- Optimized frontend and backend performance to achieve **95–100** Lighthouse scores through asset tuning, caching strategies, and efficient resource loading.

PROJECTS

Threat Detection Pipeline | *Python, PostgreSQL, Prometheus, Grafana*

Feb 2026 – Present

- Engineered a real-time log ingestion and threat detection system processing SSH and system events into structured **PostgreSQL** datasets for analysis.
- Designed anomaly detection logic to identify brute-force and suspicious authentication patterns, triggering automated alerts on threshold violations.
- Built full observability stack using **Prometheus** and **Grafana** to monitor system health, attack patterns, and infrastructure metrics in real time.

Multithreaded HTTP Server | *C, Sockets, Pthreads*

Jan 2026

- Developed a concurrent HTTP/1.1 server in C using BSD sockets and a pthread thread pool to handle multiple client requests under parallel load.
- Validated memory safety and performance under stress conditions using **Valgrind** and concurrent request testing.

SSH Honeypot & Threat Analytics | *AWS, Docker, ELK, Python*

Dec 2025 – Jan 2026

- Deployed a cloud-based SSH honeypot on **AWS** to capture and analyze real-world attack traffic in a controlled environment.
- Processed and analyzed **5,000+** attack events using Python and ELK stack to identify attacker behaviors and command execution trends.
- Provisioned infrastructure with **Terraform**, enforcing least-privilege IAM policies and secure cloud deployment practices.

CERTIFICATIONS

AWS Certified Cloud Practitioner

Amazon Web Services

In Progress