

MOOSA ALAM

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EDUCATION

University of Guelph

Guelph, ON

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

2025 – 2029

- **Focus Areas:** Systems programming, security, data analysis, and technical documentation.

PROJECTS

AI Skills Lab | Python, Prompting, Evaluation | GitHub

In Progress

- Designed and tested AI “skill” prompts for **6 administrative-style tasks** (summaries, rewriting, email drafts, policy extraction) using structured reasoning and role adherence.
- Built an evaluation harness to compare outputs across **clarity, accuracy, tone fit, and effort saved**, explicitly measuring workflow efficiency gains and failure cases.
- Improved output consistency by iterating on transformation patterns (extract → structure → rewrite), reducing ambiguous responses and missed constraints.
- Synthesized evaluation results into structured findings and recommendations suitable for internal documentation and stakeholder review.

Vectorized Quant Backtester | Python, NumPy, Pandas | GitHub

Dec 2025 – Jan 2026

- Engineered an event-driven backtesting system for simulating mean-reversion strategies on historical OHLCV financial data.
- Optimized strategy execution speed by **40%** by replacing iterative loops with **NumPy vectorization** techniques.
- Implemented risk management metrics including **Sharpe Ratio**, Maximum Drawdown, and Beta to strictly evaluate strategy viability.
- Developed a data ingestion pipeline to clean and normalize raw CSV datasets, handling missing values and outlier detection.

Distributed SSH Threat Monitor | AWS EC2, Docker, ELK | GitHub

Jan 2026

- Architected a cloud-native honeypot on **AWS EC2** to capture and analyze real-world SSH brute-force attacks.
- Automated the aggregation of **5,000+ attack logs** using a custom Python script and **Logstash**, enabling real-time data ingestion.
- Designed an interactive Kibana dashboard to visualize attacker geolocation and command frequency, identifying common botnet signatures.
- Hardened the host environment using Linux security groups and restricted IAM roles to prevent lateral movement within the VPC.

WORK EXPERIENCE

Freelance Web Developer

June 2024 – Present

Self-Employed

Remote

- Engineered high-performance web solutions, achieving **100/100 Google Lighthouse scores** by optimizing critical rendering paths and asset delivery.
- Reduced client bounce rates through the implementation of responsive, mobile-first design principles and cross-browser compatibility testing.
- Managed full SDLC from requirements gathering to deployment, documenting decisions and handoff notes to reduce revisions and support maintainability.

TECHNICAL SKILLS

Languages: C (Pointers, Memory Management), Python (NumPy, Pandas), SQL, Bash

Systems & Tools: Linux/Unix, Git, Docker, Valgrind, GDB, GCC, TCP/IP

Cloud Infrastructure: AWS (EC2, Lambda, S3, IAM, CloudWatch), ELK Stack (Elasticsearch, Logstash, Kibana)

Concepts: Structured evaluation, workflow optimization, qualitative analysis, multithreading, log analysis, REST APIs

CERTIFICATIONS

AWS Certified Cloud Practitioner (CCP) — In Progress