

Momin Naeem

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EDUCATION

University of Waterloo

Candidate for BAsC Computer Engineering

Waterloo, ON

Expected 2026

Relevant Coursework: Data Structures and Algorithms, Systems Programming and Concurrency, Database Systems, Computer Networks, Real-Time Operating Systems, Software Design and Architecture, Computer Security

EXPERIENCE

DevOps Software Developer

Adentro

Jan 2025 - Apr 2025

San Francisco, CA

- Engineered automated RDS credential rotation for 15+ databases using AWS Lambda and Secrets Manager, eliminating manual secret handling and establishing a secure access model adopted across all environments.
- Optimized Jenkins CI/CD pipelines by refactoring Groovy scripts for multi-environment Docker deployments and integrating Terraform modules, reducing deployment failures by 40% and accelerating release throughput by 35%.
- Architected observability infrastructure with Terraform-configuring VPC flow logs, ELB logs, and CloudWatch-enabling Athena queries over 50M+ monthly events for diagnostics and threat detection.
- Executed zero-downtime OS migration of 3 Prometheus servers from CoreOS to Amazon Linux 2, preserving scrape configs and persistent volumes, while improving system resilience and long-term maintainability.
- Reduced AWS registry storage costs by over \$3,000 annually through ECR lifecycle policies, image scanning, and cleanup automation; presented biweekly demos to engineers and leadership, contributing to cross-team adoption of new infrastructure standards.

Cyber Security Analyst

Toronto District School Board

Jan 2024 - Apr 2024

Toronto, ON

- Identified and mitigated over 300 security vulnerabilities across multiple web applications, enhancing the overall security posture, minimizing system downtime, and reducing threat exposure. Leveraged Python scripting for automated monitoring and reporting, aligned with OWASP and internal compliance standards.
- Developed automated scripts using Python and PowerShell to streamline routine vulnerability scans and log audits, reducing manual security checks by 40% and significantly accelerating incident response time.
- Delivered cybersecurity awareness training sessions and authored threat intelligence reports for stakeholders, contributing to a 30% reduction in user-related security incidents through targeted education and best practices.

Technical Systems Analyst

RBC Capital Markets Trade Floor

May 2023 - Aug 2023

Toronto, ON

- Resolved over 500 technical issues related to web interfaces, APIs, and user workflows on the trade floor, demonstrating strong problem-solving skills and ensuring seamless operations in high-pressure environments.
- Automated repetitive operational tasks using PowerShell and Bash, including log rotation, file system cleanup, and service restarts, generating annual savings of \$200,000 by streamlining and stabilizing trade floor processes.
- Contributed to 5 large-scale projects, supporting requirements gathering, planning, and deployment while optimizing internal web tools for trader productivity and operational efficiency.

PROJECTS

LogGuard: Cybersecurity Monitoring Tool | *Python, Flask, MySQL, REST APIs*

Sep 2024

- Developed a lightweight cybersecurity monitoring tool using Python and Flask, featuring REST API endpoints for log collection and management, providing an intuitive interface for monitoring system activities.
- Implemented lightweight anomaly detection using rule-based logic with potential for machine learning integration, enabling identification of suspicious patterns such as repeated failed logins or access from unusual IP addresses.
- Integrated basic alerting mechanisms, such as email notifications, to promptly inform users of potential security issues, enhancing response times and overall security posture.

TECHNICAL SKILLS

Languages: Java, Python, Swift, MATLAB, C/C/C#, SQL, JavaScript, HTML/CSS, R, PHP, VHDL, Verilog, Go

Frameworks: React Native, Express, Node.js, .NET, Bootstrap, Django, jQuery, Redux, Next.js, Flask, Angular, Vue

Developer Tools: Git, Docker, Gulp, Webpack, MongoDB, Nginx, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Kubernetes, Terraform, Splunk, XCode, Selenium, Jenkins, AWS CLI, Postman, Prometheus

Libraries: pandas, NumPy, Matplotlib, Tailwind CSS, Requests