

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

Python Developer

Sep 2025 - Dec 2025

GTS Securities

New York, NY

- Designed Python/Airflow pipelines processing \$50M+ annually in class-action claims and reconciliations, achieving 80% latency reduction through event-driven architecture, retry mechanisms, completeness checks, and fault-tolerant scheduling while reducing operational risk across 15+ data sources and eliminating manual intervention.
- Built PnL reconciliation engine normalizing 100K+ daily multi-currency positions (GTS/GSCO), implementing holiday-aware LVaR calculations and ISIN standardization to achieve 98.5% STP rate for trading desk analytics.
- Developed market value reporting infrastructure supporting EOD exposures, MTD/YTD aggregations, and Direxion fee calculations, optimizing PostgreSQL queries for sub-second performance on 200K+ positions.
- Automated critical workflows including Battea case tracking, ABN AMRO reconciliations, and null settlement monitoring, preventing \$10M+ in potential reporting errors through statistical anomaly detection.

DevOps Software Developer

Jan 2025 - Apr 2025

Adentro

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.
- Refactored Jenkins CI/CD pipelines for multi-environment Docker deployments, integrating Terraform-based infrastructure provisioning and reducing deployment failures by 40% while increasing release throughput by 35%.
- 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

Jan 2024 - Apr 2024

Toronto District School Board

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

May 2023 - Aug 2023

RBC Capital Markets Trade Floor

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.

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, Seaborn, Plotly, Tailwind CSS, Requests, urllib3