Momin Naeem

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EDUCATION

University of Waterloo — Waterloo, ON
Candidate for BASc Computer Engineering — *Expected 2026*

Relevant Coursework: Data Structures and Algorithms, Systems Programming and Concurrency, Database Systems, Computer Networks, Real-Time Operating Systems, Object-Oriented Programming

EXPERIENCE

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 security posture and reducing potential threats. Leveraged Python scripting for automated monitoring, aligning with industry standards.
- Developed automated scripts using Python and PowerShell, reducing manual security checks by 40% and improving the timeliness of incident identification.
- Conducted security assessments and compliance checks, ensuring adherence to best practices and internal standards across cloud-based applications.
- Collaborated with IT teams to remediate security gaps in cloud environments, enhancing data protection measures and minimizing breach risks.
- Delivered cybersecurity awareness training and presented threat reports to stakeholders, contributing to a 30% decrease in user-related security incidents through improved user practices.

Technical Systems Analyst — May 2023 - Aug 2023
RBC Capital Markets Trade Floor — *Toronto, ON*

- Resolved over 500 technical issues related to web interfaces and applications, demonstrating strong problem-solving skills in high-pressure environments.
- Upgraded and tested critical trade floor tools, focusing on web component reliability and real-time performance under high-stakes conditions.
- Automated operational tasks using PowerShell and Bash, generating an annual savings of $200,000 by streamlining trade floor processes.
- Assisted in 5 major projects, contributing to planning and deployment phases with a focus on optimizing web-based tools and enhancing performance.

PROJECTS

LogGuard: Cybersecurity Monitoring Tool | *Python, Flask, MySQL, REST APIs* — May 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 rule-based anomaly detection to identify suspicious activities, such as repeated failed logins or access from unusual IP addresses, simplifying the detection process with configurable rules.
- Integrated basic alerting mechanisms, such as email notifications, to promptly inform users of potential security issues, enhancing response times and overall security posture.

Momo: AI-Powered SaaS Chatbot | *Next.js, OpenAI, Tailwind CSS, Prisma* — Jan 2024

- Developed an AI-powered SaaS application using Next.js, featuring server-side rendering and optimized routing for enhanced performance and user experience.
- Integrated OpenAI models and Replicate to provide a suite of AI services, including conversation, code generation, and multimedia creation, accessible through a user-friendly interface.
- Styled the application using Tailwind CSS for a consistent, responsive design, and incorporated Stripe for secure payment processing, supporting a subscription-based model.

TECHNICAL SKILLS

Languages: Java, Python, Swift, MATLAB, C/C/C#, SQL, JavaScript, HTML/CSS, R, PHP, VHDL, Verilog, Go
Frameworks: React, Express, Node.js, .NET, Bootstrap, Django, jQuery, Redux, Next.js, Flask
Developer Tools: Git, Docker, Gulp, Webpack, MongoDB, Nginx, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Kubernetes, Terraform, Splunk, XCode
Libraries: pandas, NumPy, Matplotlib, React Native, Tailwind CSS