Samin Sharar Nafi

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Education

University of Waterloo
Waterloo, ON

BACHELOR OF COMPUTER SCIENCE
Sept 2020 - Apr 2025 (Expected)

- **Term Distinction** in every term; President's Scholarship
- **Skills**: TypeScript/Javascript, React, Kotlin, Java, C#, C++, CSS

Experience

Sony Interactive Entertainment | PlayStation
Waterloo, ON

SOFTWARE DEVELOPER IN TEST INTERN
May 2024 - Dec 2024

- Authored PACT contract tests for **gRPC** services using **Java and JUnit 5**, completely eliminating integration issues caused by mismatched proto files between provider and consumer services
- Modified a **Kotlin** integration test helper for provider tests, using CountDownLatch to resolve **concurrency** issues and ensure the application was fully initialized, enabling reliable test execution
- Implemented branch-specific test execution for consumer tests using **Maven** profiles, automating contract generation and publication on the master branch, reducing CI/CD overhead by preventing unintended updates
- Built a **devcontainer** with a **Dockerfile** for a Kotlin backend service, integrating with **IntelliJ** to reduce setup time for new developers and ensure consistency across development environments
- Integrated devcontainers into CI/CD by configuring a **GitHub webhook** and **Jenkins** job to automate image builds, publish to Artifactory, and update configurations ensuring up-to-date development environments

Dayforce
Toronto, ON

SOFTWARE DEVELOPER INTERN
Sept 2023 - Dec 2023

- Enhanced key frontend features for the Dayforce Jobs website using **React and TypeScript**, including the Saved Searches form and Job Application page, simplifying workflows for thousands of daily users
- Resolved critical accessibility bugs by implementing **JavaScript** logic to fix tab navigation issues with radio buttons and invisible elements, ensuring seamless navigation and compliance with WCAG 2.1 standards
- Developed robust backend validation and collation logic in **C#** for job applications, ensuring accurate handling of user data such as addresses and phone numbers to maintain data integrity and improve system reliability

Faire
Waterloo, ON

BACKEND ENGINEERING INTERN
Sept 2022 - Dec 2022

- Implemented event batching in **Kotlin** for an internal event tracking tool, reducing database write frequency by grouping user actions into timed batches, lowering API calls and server load for improved efficiency
- Redesigned the database schema with **SQL** to enable event batching, replacing individual event storage with grouped entries, which reduced storage overhead and improved query performance for large datasets
- Implemented a **Jenkins** job to keep e2e-green branch synced with main branch, overriding end-to-end test checks when lag exceeded 300 commits, reducing merge conflicts and accelerating deployment to production

SOFTWARE TEST ENGINEERING INTERN
Jan 2022 - Apr 2022

- Developed and debugged end-to-end tests with **Cypress** for critical functionalities, including login, navigation, add-to-cart, and checkout, ensuring reliable user workflows and reducing production bugs
- Authored unit tests in **TypeScript with Jest** to validate tabbing and focus functionality, catching critical accessibility issues early and ensuring seamless navigation for users with assistive technologies
- Reviewed test specifications and conducted **manual QA** testing for 20+ new features on web and mobile

Projects

Drobe: AI Outfit Analyzer App with Solana Integration

- Developed a mobile app using **React Native** and Expo Router to capture and analyze outfit photos
- Implemented Solana blockchain integration for secure wallet connections and Drobe token transactions, utilizing Phantom Wallet deeplinking for a smooth user authentication and transaction process.
- Integrated Google Generative AI (Gemini) to analyze photos and provide detailed outfit recommendations