

Samin Sharar Nafi

☎ (226) 978-1677 | ✉ snafi@uwaterloo.ca | 🏠 agneus.github.io | in saminshararnafi

Education

University of Waterloo

BACHELOR OF COMPUTER SCIENCE

Waterloo, ON

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

SOFTWARE DEVELOPER IN TEST INTERN

Waterloo, ON

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

SOFTWARE DEVELOPER INTERN

Toronto, ON

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

BACKEND ENGINEERING INTERN

Waterloo, ON

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, identifying potential issues early and ensuring high-quality releases that met user expectations

Projects

BNCC Streamer: React App with YouTube API

- Developed a dynamic video streaming application using React that uses YouTube API to fetch and display videos
- Implemented robust user authentication, including login, registration, and logout features utilizing Firebase