

# Samin Sharar Nafi

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## 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