

EDUCATION

Simon Fraser University

BSc: Computing Science – Software Systems

Burnaby, BC

Sept 2019 – May 2025

EXPERIENCE

FORM Swim

Quality Assurance Co-op

Sept 2023 – April 2024

Vancouver, BC

- Implemented and maintained automated test scripts using Appium and Java, successfully recovering 40% of legacy automation scripts for integration into testing cycles
- Optimized navigation-related automation flows by adding logic to bypass blocking pop-ups, reducing test delays by 10% in impacted scripts
- Identified and reported 120 major to critical bugs during release acceptance and regression testing, contributing to the app's stability and performance
- Worked closely with designers and developers to understand user needs and improve test cases, aligning product functionality with customer expectations

Microchip Technology

Data Automation Co-op

Jan 2022 – April 2022

Burnaby, BC

- Built Python-based data import tools using Jira REST API for cross-project migration
- Used SQL for data cleaning and transformation to support database compatibility
- Leveraged Selenium for comprehensive data extraction from various origins, fostering the construction of a firmware project tracking dashboard and enabling the team to effectively monitor project progression

PROJECTS

Embedded Digital Clock – STM32, C, SPI, I2C, BME280

July 2025 – August 2025

- Built a digital clock using STM32 and ST7789 LCD to display real-time, animations, and temperature
- Integrated BME280 sensor via I2C for temperature readings and configured SPI for high-speed LCD frame updates
- Debugged SPI data transmission issues using a logic analyzer, improving frame rendering stability

Focus Week – (Android App)

April 2024 – August 2024

- Developed a timer-based habit tracker app and released it on the Google Play Store, serving 15 daily active users in reaching their habit goals through an innovative 7-day clock-based UI
- Utilized ViewModel architecture to manage app state, ensuring seamless data sharing across UI components.
- Implemented a custom image slider using ViewPager2, personalizing user's habit with unique images.

Online Quiz Game – ExpressJS, Socket.io, PostgreSQL, GCP, React

Feb 2023 – May 2023

- Led a 4-member team to architect and deploy Frenzy Quiz, an interactive quiz platform enabling real-time quiz creation, management, and participation through QR code scanning
- Engineered a bidirectional communication protocol with Socket.io to synchronize interactions across all players
- Developed a role-adaptive UI using React, ensuring intuitive, role-specific interactions for hosts and players
- Deployed with GitHub Actions and Docker Compose, creating a CI/CD pipeline that reduce deployment time

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, HTML, CSS, Java, C, C++, C#, SQL, Kotlin

Frameworks: Cmake, Node.js, Flask, Django, Android Studio

Platform/Deployment tools: Git, Jira, AWS, GCP, Docker, MongoDB, Firebase