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Education

University of British Columbia

Bachelor of Applied Science – Biomedical Engineering (Computer Science Option)

Expected: May 2026

Experience

Intuit – Software Engineer Intern

Sep 2024 - Present

- Building a server-driven UI in Kotlin, Swift and TypeScript to power user experiences for millions of customers
- Developing assets and plugins to render components from [Player](#) JSON, significantly reducing native app releases
- Implementing 3 design system libraries in Jetpack Compose, SwiftUI, and React.js consumed by internal teams
- Designing clean APIs that follow semantic versioning to ensure backward compatibility per major release
- Writing unit, screenshot, and UI tests using JUnit, XCTest, Jest, and Applitools Eyes yielding 85% line coverage

FORM – Android Developer Co-op

May 2024 - Aug 2024

- Developed 3 key features for an Android app that interfaces with Bluetooth-enabled swim goggles in Kotlin
- Pioneered UI development in Jetpack Compose to yield higher velocity and reduced boilerplate code by 40%
- Used RxJava for asynchronous operations with a REST API and cloud services like Firebase and Google Analytics
- Resolved 30+ critical issues reported through Firebase Crashlytics and beta testing, affecting 10% of beta users
- Enhanced BLE data transfer to GATT servers using Protobufs and Java, reducing OTA updates from 80s to 60s
- Optimized Jenkins to reduce CI/CD build times from 40 min to 30 min for APK uploads to Firebase and AWS S3

Avanti – Software Developer Co-op

Sep 2023 - Apr 2024

- Spearheaded the development of 9 Android app features in Kotlin, contributing to an increase of 5000+ users
- Developed reusable components in Jetpack Compose with Google Analytics to provide data-driven insights
- Optimized REST API calls with Room database caching and Coroutines, reducing data retrieval latency by 25%
- Modularized network calls, data models, and UI states with the MVVM pattern using Hilt for dependency injection
- Wrote unit tests to yield 90% line coverage using JUnit and Mockito to ensure code quality across all features

Global Relay – Software Development Engineer in Test Co-op

May 2023 - Aug 2023

- Built test automation for Android in Kotlin and Java using Espresso, saving 10+ engineering-hours per week
- Achieved 95% accurate build results for a Jenkins CI/CD pipeline in Docker by fixing test automation issues
- Designed test cases in TestRail to validate UI flows and REST API HTTP responses with 100% path coverage

Projects

Simple Bank Service | Go, Gin, gRPC, PostgreSQL, Redis, Docker, AWS, GitHub Actions, Kubernetes

- Building a backend web service in Go with JWT and PASETO-based authentication for secure HTTP API endpoints
- Developing a REST and gRPC API for secure account management, balance tracking, and money transfers
- Designing a PostgreSQL relational database schema and generating Go code to handle concurrent transactions
- Integrating Redis for asynchronous and background processing including email verification via Gmail SMTP

UBC AeroDesign | Kotlin, Java, Compose Multiplatform, Redis, Docker, Raspberry Pi, Figma

[Website](#)

- Leading a team of 4 to build a data visualization dashboard with plane controls interfacing a Raspberry Pi
- Designing a message broker to handle live data and image streams using Redis for efficient data retrieval

Noodle Doodle – Winner at nwHacks 2024 | Swift, SwiftUI, Alamofire, Python, Flask, Raspberry Pi, Figma

[GitHub](#)

- Placed first out of 200+ teams by building an IoT device and iOS app that consumes a REST API to cook noodles
- Built an iOS app, a Flask REST API in Python, and a Raspberry Pi IoT device with 100% functionality in 24 hours

Accura Plastering Website – Freelance | TypeScript, CSS, Next.js, React.js, Vercel, Figma

[Website](#)

- Built and deployed a new website using Next.js and Vercel, achieving a 5x increase in monthly visitors
- Designed a seamless and intuitive UI in Figma, focusing on user experience and business needs alignment

Skills

Languages: Kotlin, Java, Go, TypeScript, JavaScript, Swift, Python, C, C++, SQL, GraphQL, HTML, CSS, Bash

Software: Git, Jetpack Compose, React.js, SwiftUI, gRPC, PostgreSQL, Redis, Kafka, Docker, AWS, Jenkins, Kubernetes