

# SAMUEL KIM

☎ (778) 953-2568 ✉ samuelk2@student.ubc.ca 🌐 samuelyongkim.com 🔗 linkedin.com/in/samuelkim019 📧 daedal00

## EDUCATION

### The University of British Columbia

December 2025 (Expected)

*Bachelor of Science, Combined Major in Science (Computer Science & Physics)*

Vancouver, BC

**Relevant Coursework:** Data Structures and Algorithms, Database Systems, Computational Data Science, Intro. Artificial Intelligence, Computer Networking, Reliability and Security, Computer Systems and Hardware

## EXPERIENCE

### Savi Finance

Jan. 2024 - Aug. 2024

**Software Engineer Intern** | *TypeScript, GraphQL, Node.js, Nx*

Remote

- Launched a core income/expense categorization feature in 7 days, which enabled the product team to ship ahead of schedule and meet customer expectations.
- Automated transaction-email ingestion pipeline with AWS (SES,SNS,SQS) and OpenAI 4o-mini, improving data consistency for 400+ users and eliminating manual categorization steps (~35 sec saved per email).
- Led an 8-step, zero-downtime database migration, ensuring uninterrupted service across all financial platforms.
- Authored three Agile-ready technical specifications (API design, workflow automation, categorization logic) alongside PMs, designers, and consultants to accelerate releases.

## PROJECTS

**Muse** | *Go, GraphQL, React/TypeScript, PostgreSQL, Redis, Docker, Kubernetes*

Mar. 2025 – Present

- Designed & implemented a GraphQL API (20+ types/resolvers) in Go using cursor-based pagination and connection patterns, enabling efficient, scalable music discovery.
- Engineered a Redis-based caching layer for Spotify API calls, slashing album search latency by 87% (665→81 ms).
- Integrated Spotify Web API via OAuth2 to ingest real-time song and album metadata and manage user authentication.
- Implemented a GitHub Actions-based CI/CD pipeline with automated unit and integration tests, benchmarking, linting, and security scans—achieving 68% overall code coverage.

**FoodTalk** | *PHP, CSS, HTML, SQL, Oracle*

Sep. 2023 – Dec. 2023

- Led a 3-person team to build a social platform, implementing user authentication, post creation, and profile management.
- Delivered core features on a strict 6-week Agile sprint schedule, integrating the PHP frontend with an Oracle database to ensure seamless data flow and on-time launch.
- Optimized Oracle SQL queries to reduce response times by 20% and authored detailed technical documentation covering implementation decisions and database schema for maintainability.

**BudgetView** | *Java Spring Boot, React, MongoDB, Plaid API*

Oct. 2023 – Nov. 2023

- Architected a Spring Boot MVC backend (controllers, services, repositories) and React frontend in 8 weeks, integrating Plaid API for secure, real-time transaction tracking and categorization.
- Refactored controllers with DTOs and cut median API latency 25% (230ms→170ms) measured via Postman benchmarks.

**RecipeScout** | *Python, Flask, Async Scraping, HTML/CSS, JavaScript*

Jul. 2023 – Aug. 2023

- Engineered a Flask service to asynchronously scrape recipes from AllRecipes.com, cutting search latency by 15% using asyncio and threading.
- Designed a responsive UI (HTML/CSS/JS) to display real-time results, improving user experience across devices.

## SKILLS

**Languages:** C, C++, JavaScript, TypeScript, HTML, CSS, SQL, Python, Java, Go/Golang

**Frameworks:** Node.js, Express, Angular, Spring Boot, Flask, gqlgen, Django, JUnit

**Libraries & APIs:** GraphQL, REST API, MongoDB, Mongoose, PostgreSQL, React, JSON-RPC, Nx, Styled-Components, Scikit-learn, Tensorflow, Redis, JWT, OAuth2

**Tools:** Git, Linux, Postman, Docker, Jira, Confluence, GitHub, AWS (SNS, SQS, SES), Kubernetes, GitHub Actions