SAMUEL KIM

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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 ($\sim$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 and implemented the core GraphQL schema and resolvers in Go (gqlgen), enabling efficient data modelling for user, album, and review entities.
- Integrated Spotify Web API to ingest real-world album metadata, ensuring accurate live music data
- Dockerized the service and shipped Helm-ready K8s manifests, enabling one-command local spin-ups and de-risking the planned micro-services split.
- Developed a React/TypeScript frontend scaffold (Vite + Apollo Client), creating essential UI components (album browsing, review submission) to validate end-to-end GraphQL flows.

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