

Kai Samson

📍 Vancouver, BC

✉️ kai.samson@sfu.ca

🌐 [kaisamson](https://kaisamson.com)

🌐 [kaisamson](https://kaisamson.com)

🌐 kaisamson.com

EDUCATION

Simon Fraser University

Bachelor of Science, Computing Science in Software Systems

Sept. 2025 – May. 2027

Burnaby, BC

Langara College

Part-time Associate of Science, Computer Science

Sept. 2021 – Aug. 2025

Vancouver, BC

EXPERIENCE

Software Developer Intern

Aug. 2020 – Jul. 2021

14 Oranges

Richmond, BC

- Built a **Full-Stack Android App** used by the QA team and future interns to communicate bugs to developers, providing mobile access to their project management database after a company-wide iOS to Android migration
- Developed and implemented a **Java API Manager** utilizing **OkHttp3** for efficient API request handling
- Debugged and tested new WebApp features with the **QA team**, collaborating directly with developers to fix broken features improving quality of life and functionality
- Developed responsive websites for businesses, working directly with clients to **improve conversions, website traffic and SEO** by optimizing website layout, structure and **keywords**
- Set up secure FTP systems via SSH tunnels and **Ubuntu** allowing remote work during COVID-19

Linux Admin

Sept. 2021 – Present

C&L Multimedia

Vancouver, BC

- Automated HTML page creation with **shell scripts**, improving creation speed from **120 pgs/hr** to **10k pgs/hr**
- Automated the normalization of **100k+ products** in a legacy **FoxPro NoSQL** database via shell scripts, eliminating **800+ hours** of manual entry and ensuring error-free UPC-based naming
- Maintained and updated information on **37,000+ clients** in a legacy database, improving customer outreach

PROJECTS

NeuroGolf | *Swift, Python, YOLOX, Firebase, CoreML, SwiftUI, Obj-C*

Jun. 2024 – Present

- Developed a Full-Stack AI Golf Training iOS app using **SwiftUI**, **CoreML**, and **Firebase**, field-tested with teaching pros and collegiate golfers to enhance engagement through **closed-loop** and intuitive UI flow
- Engineered a joint comparison and motion analysis system that interprets pose data to quantify swing similarity
- Trained a **YOLOX object detection** model in **Python** to detect clubheads and golf balls, optimizing model weights and configuration for mobile deployment while achieving **over 0.5 mAP** on a custom-labeled dataset

Mycel OS - OppFest 2025 Winner | *Swift, Firebase, JavaScript, HTML/CSS*

Sept. 2025 - Dec. 2025

- Won **1st Place** in Technology Platforms & Services and **High Impact Innovator Runner-Up** at Opportunity Fest 2025, led software development, UX, and customer segmentation for a freight logistics operating system
- Built an iOS **Swift** prototype and **Firebase-hosted** web demo to demonstrate core workflows (carrier/shipper coordination, real-time updates, and simplified **UX** for low-software-literacy operators).
- Executed a full **SDLC** for customer-first features while validating with interviews under strict time constraints

Cadence – Personal AI Environment | *Swift, Supabase, Vercel, React/TypeScript, Vite, OpenAI*

2025 – Present

- Designed and engineered my own multi-platform productivity environment that turns daily voice recaps into structured timelines, performance analytics, and personalized coaching powered by **Whisper** and **LLM** reasoning
- Developed an iOS native **SwiftUI** app using **on-device Whisper** transcription for **60% more** contextually accurate speech processing, paired with a **Supabase + Vercel** backend hosting **LLM** and **Postgres** storage
- Implemented an auth/key-protected data pipeline: audio → auth → transcription → LLM-generated JSON → **SQL** database → secure, real-time dashboards and visualization of long-term productivity patterns

TECHNICAL SKILLS

Languages: Swift, Java, Kotlin, C++, Python, Obj-C, Lua, GDScript, BASH, JavaScript, HTML, CSS, TypeScript

Frameworks: CoreML, CoreMotion, Vision, React, Next.js, Node.js, JUnit, OkHttp3

Developer Tools: Linux, Vite, Firebase/Google Cloud Platform, Git, Docker, Springboot, Vercel, Supabase, Postgres, WordPress, AWS Cloud9, AWS Bedrock, FogBugz, Godot

Libraries: pandas, Pygame, Matplotlib, NumPy, TensorFlow, Keras, Minim

Hobbies/Interests: Golf, Hockey, Entrepreneurship, NHL 2003, Ski/Snowboarding, F1, JavaDoc Comments