

# Kai Samson

📍 Vancouver, BC

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## EDUCATION

### Simon Fraser University

*Bachelor of Science, Computing Science in Software Systems*

Sept. 2025 – Apr. 2027

*Burnaby, BC*

### Langara College

*Associate's of Science, Computer Science*

Sept. 2021 – Aug. 2025

*Vancouver, BC*

## EXPERIENCE

### Software Developer Intern

*14 Oranges*

Aug. 2020 – Jul. 2021

*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
- Implemented a Java API Manager utilizing *Square OkHttp3* for efficient JSON 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 WordPress.org 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

*C&L Multimedia*

Sept. 2021 – Present

*Vancouver, BC*

- Automated HTML page creation with shell scripts, improving page creation speed from 120 pgs/hr to 10k pgs/hr
- Automated the normalization of 100k+ products in a legacy FoxPro SQL 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 professionals and collegiate golfers to enhance engagement through refined onboarding and intuitive UI flow
- Engineered a joint comparison and motion analysis system that interprets pose data to quantify swing similarity
- Trained a custom 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 and customer segmentation for a real-time freight logistics operating system
- Executed a full SDLC for an iOS native Swift prototype with tight deadlines and high pressure, developed a lightweight JS website and Firebase web-app pitch demo in less than 30 minutes

### 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 a 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