

# RYAN KIM

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## EDUCATION

### University of British Columbia

Vancouver, BC

*Bachelor of Applied Science in Computer Engineering*

*May 2028*

- 4.20 GPA | UBC Presidential Scholar
- Relevant Coursework: Data Structures and Algorithms, Object-Oriented Programming, Linear Algebra, Probability & Statistics, Digital Systems

## EXPERIENCE

### Software Developer

Jan 2025 – Present

*UBC Sailbot*

*Vancouver, BC*

- Building custom AIS data pipeline to replace \$25K/year commercial service; architecting Redis caching layer shared across users to prevent API throttling and ensure reliable ship tracking
- Developing interactive dashboard with React and Redux featuring real-time telemetry graphs, sensor data visualizations, and smooth animations for testing operations

### Systems Engineering Intern

May 2025 – Aug 2025

*Paladin Technologies*

*Vancouver, BC*

- Built a Python ETL pipeline that reduced data processing time from hours to seconds (**1000x**); improved workflow adoption and data quality across engineering teams
- Partnered with City stakeholders to translate requirements for infrastructure upgrade into deliverables; shipped KMZ metadata package adopted as standard across **250+** sites

## PROJECTS

### Rebase — AI-Native Resume Builder | *Next.js, TypeScript, Supabase, Gemini API, Typst*

2025

- Led 3-person team to ship private beta to 20+ active users; architected master-profile system solving the multi-version resume problem with AI-powered content selection
- Built AI agent pipeline that autonomously rewrites content based on job descriptions; engineered Typst rendering engine for consistent, low-latency PDF generation
- Designed token-based pricing model with 97% projected margins on Pro tier; implemented credit caps to manage compute costs

### Healthspan — AI Nutrition Tracker | *React Native, Python (FastAPI), Supabase, Gemini API*

2025

- Developed cross-platform mobile app for healthspan tracking; engineered multi-modal AI pipeline analyzing meals via computer vision with **70%** latency reduction through prompt optimization
- Built time-series correlation engine linking dietary patterns with delayed symptoms (30-72hr windows); implemented intelligent caching improving report load times by **80%**

### Mango — Gesture Controlled Minecraft | *Python, OpenCV, MediaPipe*

2025

- Built real-time computer vision pipeline mapping full-body gestures to keyboard/mouse inputs; designed modular gesture detectors with temporal state management and input debouncing
- Shipped MVP in 12 hours at HelloHacks; awarded **1st place**

## SKILLS

**Languages:** Python, TypeScript/JavaScript, Java, C/C++, SQL, SystemVerilog

**Frameworks & Tools:** React, Redux, Next.js, React Native, FastAPI, Node.js, Redis, Git

**Technologies:** REST APIs, Computer Vision (OpenCV, MediaPipe), LLMs/GenAI, ETL Pipelines

## LEADERSHIP

### Founder & President

2020 – 2024

*Keys For Seniors*

- Founded volunteer organization delivering 4+ years of community programming; led team operations and event logistics