

Jiawei He (Anson)

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TECHNICAL SKILLS

- **Programming Languages:** Python, TypeScript/JavaScript, Java, C
- **Cloud & Infrastructure:** AWS (EC2, S3, Lambda, RDS), Firebase, Docker, CI/CD, Git
- **Backend Development:** Node.js, Bun, Hono, RESTful APIs, Microservices
- **AI & Machine Learning:** YOLOv8, PyTorch, Computer Vision, Edge AI Optimization
- **Frontend Development:** React, Vue, React-Native, Next.js, TailwindCSS, HTML/CSS
- **Database & ORM:** MySQL, MongoDB, PostgreSQL, Prisma
- **Development Tools:** Data Structures & Algorithms, Object-Oriented Programming, System Design, Linux

WORK EXPERIENCE

- Dialpad** Jan 2026 - Present
Software Engineer Co-op
Vancouver, Canada
- Contributed to full-stack development in the Core UX team, fixing production bugs in Python backend services and Vue.js frontend applications.
- Bayes Studio** Jan 2025 - Aug 2025
Software Engineer Intern
Vancouver, Canada
- **Architected** and deployed a real-time AI inference pipeline achieving **sub-10ms** response times, implementing efficient data processing workflows with **YOLOv8** optimization for edge computing environments.
 - Built a scalable multi-source data ingestion service **handling 6+ concurrent data streams with 10-30ms latency**, supporting real-time analytics and anomaly detection systems.
 - Engineered a high-throughput event processing pipeline with custom priority queuing, **processing 10+ events/sec with sub-100ms end-to-end latency to cloud infrastructure**.
- Ugreen Group Limited** Jun 2021 - Jun 2023
Senior Product Engineer (Technical PM)
Shenzhen, China
- Product Lead for the Power Strips product line, achieved \$4.8M+ in product sales revenue in 1.5 years.*
- Led cross-functional development for **17+ smart power control systems in Chinese market and 9+ international products**.
 - Defined and iterated on embedded software specifications (e.g., load protection algorithms, PD charging protocol logic, etc.), collaborating with R&D engineers to ensure implementation quality and release readiness.
- Seed Studio** Dec 2020 - Apr 2021
Product Manager
Shenzhen, China
- Defined technical requirements and led cross-team collaboration for **Raspberry Pi CM4 Dual Gigabit Carrier Board**, with **1000+ pre-orders sold in first week**.
- Seed Studio** Jun 2019 - Dec 2020
Application Engineer
Shenzhen, China
- Developed and maintained C/C++ codebase for community well-known hardware platform (**Wio Terminal**), integrating support for multiple platforms (PlatformIO, Edge Impulse, Blynk, CircuitPython) with wiki documentation receiving **1000+ daily visits**.
 - Implemented **Travis CI/CD pipeline** with Arduino CLI to automate compilation and testing across multiple ARM architectures (SAMD21, SAMD51, etc.), maintaining **95%+ successful build rate** across all platforms.

HACKATHON & COMPETITIONS

- Qualcomm x Microsoft x Northeastern University On-Device AI Builders Hackathon** Mar 2025
Software Engineer
Vancouver, Canada
- Built an end-to-end on-device AI navigation system** for wheelchairs using computer vision and speech processing.
- **1st Place Winner** out of 15 teams.
 - Implemented on-device **YOLOv8n** object detection (<40ms) and OpenAI Whisper (<10ms) on Snapdragon X Elite using Qualcomm AI SDK and ONNX Runtime QNN.

KEY PROJECTS

- BC Cancer Donor Lifecycle Management (Next.js · Bun · Hono · TailwindCSS · shadcn/ui)**
- [Live Demo / Github - ansonhex/BC-Cancer-LifeCycle-POC](#)
- Architected a full-stack dashboard using **Next.js (Frontend)** and **Bun+Hono (Backend)**, achieving consistent **API response times of <100ms**.
 - **Built** an automated donor classification pipeline handling **100+ profiles** using custom business logic and **batch job queuing**.
- fakeX: Full Stack Social Media Application Inspired By Twitter (React · Node.js · Express.js · MySQL · Prisma · Auth0)**
- [Live Demo / Github - ansonhex/fakeX](#)
- Developed a scalable social media platform with **React, Node.js, Express.js**, supporting **100+ concurrent users** with room for horizontal scaling
 - Implemented secure auth system using **Auth0 + JWT**, supporting **100+ successful sessions** with session expiry.
- CatchUp: Real-time Location Sharing Mobile App (React Native · Firebase · MapBox)**
- [Video Demo / Github - ansonhex/CatchUp](#)
- **Built** a cross-platform mobile app with **React Native + Expo**, achieving **98% code reuse** between iOS and Android platforms.
 - **Engineered** a real-time location system using **Firebase realtime DB + MapBox**, maintaining **<1s update latency** across devices.

EDUCATION

- Northeastern University** Sep 2023 - Dec 2025
MSc Computer Science
Vancouver, Canada
- **GPA: 4.0/4.0**
 - **Courses:** Data Structures & Algorithms, Machine Learning, Object-Oriented Design, Web Development, Cloud Computing, Mobile Development
- University of Exeter** Sep 2015 - Jun 2018
BEng(Hons) Electronic Engineering
Exeter, United Kingdom
- **Grade: First Class Honours (Incl. First Class Dissertation) / GPA: 3.9/4.0**