

# Andy Guo

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## EDUCATION

University of British Columbia

Combined Major in Business and Computer Science, BComm

Vancouver, BC

May 2027

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, SQL, JavaScript, HTML/CSS, R, Swift

**Frameworks:** React.js, React Native, Node.js + Express.js, Flask, JUnit, Bootstrap, Tailwind

**Developer Tools:** Git, Unix Shell, Kubernetes, Figma, Amazon Web Services, VS Code, PyCharm, Jupyter, RStudio, PostgreSQL, MySQL, SQLite, Docker

**Libraries:** NumPy, Matplotlib, JUnit, Pandas, Scikit-learn

## PROJECTS

**FPL Machine Learning Fantasy Football Assistant** | *Pandas, Scikit-Learn, Swift* October 2025 – Present

- Engineered a machine learning pipeline in Python using pandas and scikit-learn, training a **Random Forest regression model** that achieved a **12% improvement** in predicting weekly expected player points over baseline heuristics.
- Implemented backend data ingestion from FPL's public API, transforming raw player and fixture data using pandas, and exposing results via a custom-built API.

**Pay me Back! iOS trip expense splitter** | *FastAPI, SQLite, Swift* September 2025 – Present

- Designed and implemented a full-stack expense-splitting application with clean separation of concerns using MVVM architecture.
- Built and consumed RESTful APIs with asynchronous request handling, ensuring reliable data synchronization between client and backend.
- Integrated SQLite for local persistence, enabling **100% offline functionality**, with automatic two-way sync to backend tested across **10+** network conditions and edge cases.

**Nina AI (Cal Hacks 2025)** | *React Native, FastAPI, SQL, Vapi, Groq* October 2025

- Developed an AI-first voice assistant mobile app that transcribes, organizes, and retrieves user voice notes using **Retrieval-Augmented Generation** (RAG) pipelines.
- Built a sleek React Native frontend enabling users to record, search, and retrieve notes with an average latency of **500ms** per voice query.
- Engineered a FastAPI backend integrated with SQL database for structured note storage, metadata retrieval, and contextual queries.
- Leveraged Vapi and Groq to reduce speech-to-text inference latency by **40%**, allowing near real-time voice interaction at hackathon scale.

## LEADERSHIP

**Software Engineer, Motion UBC** October 2025 – Present

Vancouver, B.C.

- Contributing to the United We Can project, a Vancouver-based initiative that provides employment opportunities for marginalized individuals in the Downtown Eastside through recycling programs.
- Designing and building a full-stack platform with Next.js, React Native, and PostgreSQL (Supabase) to manage driver schedules, pickup requests, and recycling records.
- Developing a customer-facing mobile interface for scheduling and tracking recyclable pickups with optimized real-time data synchronization.

**North Shore Hacks Co-Founder** August 2023 – November 2023

West Vancouver, B.C.

- Raised **\$7,892** in sponsorship by cold-emailing **200+ companies** and negotiating deliverables with stakeholders ranging from startups to national brands.
- Ran a fully online 24-hour hackathon with **133 participants** — managed devpost logistics, created and managed a discord server for efficient communication, onboarded sponsors and judges, and ensured a smooth experience across multiple time zones.