

AIDEN SUH

+1 (437)-263-6434 | ✉️ aidenmsuh06@gmail.com | [🌐 linkedin.com/in/aidensuhh](https://www.linkedin.com/in/aidensuhh) | [🐙 github.com/aidensuhh](https://github.com/aidensuhh) | [🌐 aidensuh.com](https://aidensuh.com)

EDUCATION

University of Waterloo

Honours Bachelor of Computing and Financial Management

Waterloo, ON

September 2024 – April 2029

- Double Major in Computer Science and Finance
- **Award:** President's Scholarship of Distinction (\$2000)

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, HTML, CSS, Kotlin, Racket

Frameworks/Libraries: React, Vue.js, Node.js, Next.js, Express.js, Three.js, Tailwind CSS, Flask, PyTorch, NumPy, pandas

Technologies: Git, GitHub, Docker, VS Code, Jupyter Notebook, PostgreSQL, Supabase, SQLite, Nginx, DigitalOcean, Figma

EXPERIENCE

Web Developer

Electrium Mobility

January 2025 – Present

Waterloo, ON

- Built a **Kotlin-based** Android app using **Google Maps Platform APIs** to deliver real-time GPS navigation for E-Bike users
- Engineered a Bluetooth Low Energy scanner to facilitate real-time communication between **40+** devices simultaneously
- Developed the team's website with **TypeScript, React,** and **Tailwind CSS** to optimize UI and accessibility on iOS devices

Technology Coordinator

University of Waterloo Korean Association

January 2025 – Present

Waterloo, ON

- Developed the web application using **Python, Flask,** and **SQLite** to manage membership registrations for **200+** members
- Implemented a student-vendor verification system with **JavaScript, HTML,** and **CSS** to streamline member authentication and deliver exclusive discount services at **7+** local partner eateries through dynamic, mobile-first optimized web interfaces
- Managed app infrastructure on **DigitalOcean,** achieving **99.99%** uptime, an **85%** reduction in load times during peak traffic, and overall enhanced scalability through load balancing and containerization, driving improved user satisfaction

CxC Datathon Coordinator

University of Waterloo Data Science Club

December 2024 – February 2025

Waterloo, ON

- Coordinated **3** designers and **10+** sponsors to oversee ceremony logistics for **Canada's largest Data Science hackathon**
- Organized **10** presenters to deliver **7** workshops, driving a **233%** year-over-year increase in offerings for **350+** participants

PROJECTS

🔗 **RBVeal** | *JavaScript, React, Next.js, Tailwind CSS, Node.js, Express.js*

- Won **First Place** for the **RBC Sponsor Prize** among **126** teams at the University of Toronto's 2025 UofTHacks 12 Hackathon
- Developed a bank phishing simulator using **Nodemailer** for dynamic emails and **React/Tailwind CSS** for responsive UI
- Built a real-time AI call agent with **Twilio, OpenAI, Deepgram,** and **Websockets** for natural conversations with **<2s** latency

🔗 **EchoDoc** | *TypeScript, React, Next.js, Tailwind CSS, Node.js, Express.js*

- Built a full-stack platform using **ElevenLabs,** enabling family doctors to automate patient management with voice cloning
- Implemented an AI-integrated calendar with **Twilio** and **Google Gemini** to allow real-time updates for doctors' schedules
- Designed the **Supabase** database with **Clerk** authentication to securely manage patient profiles and appointment data

🔗 **OutPerform** | *Python, NumPy, pandas, Matplotlib, yfinance*

- Built a Python algorithm to optimize stock portfolios using historical data, outperforming TSX 60 and S&P 500 benchmarks
- Designed a data preprocessing pipeline, applied **3** portfolio performance metrics, and visualized results using **Matplotlib**
- Utilized **NumPy** and **pandas** for vectorized simulation of **1M+** portfolio weights for **30+** stocks, achieving **<25s** runtime

🔗 **Personal Portfolio** | *TypeScript, React, Next.js, Three.js, Tailwind CSS*

- Built a dynamic portfolio with **Next.js App Router** and **Three.js,** featuring 3D particles and a **100%** Lighthouse SEO score
- Optimized email functionality with **Resend** and robust error handling to achieve a **96%** Lighthouse Best Practices score
- Crafted a responsive UI with **Tailwind CSS** and **Framer Motion,** refining animations and optimizing assets for performance