AIDEN SUH

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EDUCATION

University of Waterloo   Waterloo, ON
Honours Bachelor of Computing and Financial Management   *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, SQL, 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, Jupyter Notebook, MySQL, PostgreSQL, Supabase, SQLite, Nginx, DigitalOcean, Figma

EXPERIENCE

Web Developer   January 2025 – Present
Electrium Mobility   *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 **10+** devices simultaneously
- Developed the team's website with **TypeScript**, **React**, and **Tailwind CSS** to optimize UI and accessibility on iOS devices

Technology Coordinator   January 2025 – Present
University of Waterloo Korean Association   *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   December 2024 – February 2025
University of Waterloo Data Science Club   *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, finance, Jupyter Notebook*
- 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