Aiden Suh

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TECHNICAL SKILLS

Languages: Python, Java, C++, JavaScript, TypeScript, SQL, Kotlin, HTML, CSS, Racket
Libraries/Frameworks:: React, Node.js, Next.js, Express.js, Chart.js, TailWind CSS, MongoDB, Django, Flask
Development Tools: Git, GitHub, VS Code, Azure, Jupyter Notebook, Figma, nginx, Appwrite, Plaid, Dwolla

EXPERIENCE

Full-stack Developer
January 2025 – Present
University of Waterloo Korean Association
Waterloo, ON

- Built a Python web application with **Flask** and **Django** in a development team of 4 to efficiently streamline event/membership registrations for **300+** organization members
- Leading the redevelopment of the website using the **MERN stack**, transitioning to a JavaScript-based architecture and leveraging **Next.js** for improved performance, real-time features, and enhanced developer productivity

Web Developer
January 2025 – Present
Electrium Mobility
Waterloo, ON

- Engineered a BLE scanner capable of detecting and processing data from **40+** concurrent devices using **Kotlin**
- Building a validation schema for member application page of the organization website using **React** and **yup**
- Developing the website using **Typescript** and **Next.js** to improve UI responsiveness on Apple mobile devices

CxC Data Science Hackathon Organizer
December 2024 – February 2025
University of Waterloo Data Science Club
Waterloo, ON

- Organized **10+** key sponsors and club design team of **3+** to oversee key logistics of the opening and closing ceremonies for **Canada's largest** Datathon to ensure a memorable experience for **350+** participants
- Coordinated **6+** education team members and **3+** sponsor presenters to deliver **7** beginner-friendly workshops for hackers, resulting in a **233%** increase in workshop offerings compared to the previous year

PROJECTS

RBVeal | *React, Next.js, Express.js, TailWindCSS, Node.js, Twilio, OpenAI, Deepgram, Nodemailer*

- Won **First Place Tech@RBC Sponsor Prize** among **125+** teams at 2025 UofTHacks 12 Hackathon
- Developed a sophisticated phishing simulation platform for RBC with dynamic emails via **Nodemailer**, realistic banking UIs remade with **React** from HTML, and AI call agents to reduce vulnerability to teenage financial fraud
- Built a real-time AI phone system using **WebSockets**, **Twilio**, **OpenAI**, and **Deepgram** for natural conversations with under **2s** latency

Finilytics | *TypeScript, Next.js, Chart.js, Tailwind CSS, React Hook Form, Appwrite, Plaid, Dwolla, Zod*

- Developed a modern fintech banking platform using **Next.js**, **TypeScript**, and **Tailwind CSS**, enabling users to connect multiple bank accounts and manage finances in real time
- Integrated **Plaid**, **Dwolla**, and **Appwrite** to facilitate features such as real-time transaction display, fund transfers, and secure user authentication with proper validations and authorization
- Created a responsive web application with features including transaction history, spending categorization, and real-time balance updates across connected accounts

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

- Built a Python-based robo-advisor to select the **12** best stocks from a random list of tickers to create an optimal portfolio to outperform the market average of TSX 60 and S&P 500
- Developed a **Monte Carlo Simulation** using **NumPy** and **pandas** to efficiently evaluate **1000000+** random portfolio weights to identify the portfolio with the highest Sharpe ratio under **1min** processing time
- Implemented **3+** indicator algorithms, including Market Correlation Analysis, Implied Volatility, and Exponential Moving Average to further optimize stock portfolios and used **Matplotlib** to visualize the final data

EDUCATION

University of Waterloo
September 2024 – April 2029
Candidate of Bachelor's in Computing and Financial Management, Honours

- Double Major in Computer Science and Finance
- **Award:** President's Scholarship of Distinction ($5000)