Kai Jun Han

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Education

University of Michigan — Ann Arbor, MI

Bachelor of Engineering in Computer Science — *Expected Dec 2024*

- GPA: 3.964/4.00
- Dean's List Academic Year 2022/2023
- Awarded James B. Angell Scholar Award for having achieved an 'A' record for two or more consecutive terms

Experience

Investment Analyst Intern — Jan 2022 – June 2022

Gifted Group — *Singapore, Singapore*

- Developed a portfolio backtesting tool with python scripts that simulated the fund's performance by executing trading algorithms on the top 100 cryptocurrencies based on market cap, moving averages, total liquidity locked and transaction volume by making requests to CCXT, Coinbase, CoinMarketCap, CoinGecko API
- Wrote a javascript web application that made requests to Google's Google Sheet and Gmail API to automatically scrape and filter emails into various custom categories at hourly intervals
- Built an excel model to automate the process of generating weekly public fund performance
- Researched and analyzed the top 100 cryptocurrencies to develop a risk profile for the digital asset fund

Admin Support Assistant — Jan 2021 – Jan 2022

HQ 2PDF, Singapore Armed Forces — *Singapore, Singapore*

- Performed various legal administrative duties such as filing, typing, and copying and coordinated with Military Police on administrative matters of disciplinary cases for over 50 active army personnel and reservists.

Fusion Analyst Trooper — Jan. 2020 – Jan 2021

11C4i Battalion, Singapore Armed Forces — *Singapore Singapore*

- Participated in various high-key battalion-level and division-level Exercises where I synthesized, plotted and presented real-time battlefield data to 17 high-ranking officers.
- Supported front-line battalions with crucial satellite intelligence in 3 high-level exercises, involving 4 battalions over the course of 2 months
- Functioned with a high level of technical competency by self-learning new technologies such as ArcGIS and Microsoft BI in under 2 months

Projects

Ecommerce Store | *React, PostgreSQL* — June 2023 – Aug 2023

- Developed a full-stack ecommerce web application with PostgreSQL serving a REST API with React as the frontend
- Implemented GitHub OAuth to get data from user's repositories
- Visualized GitHub data to show collaboration
- Used Redis for asynchronous tasks

RoboSub | *Docker, ROSPy, Python, Arduino, Raspberry Pi* — Aug 2022 – Mar 2023

- Helped built a miniaturized depth sensor with PCB board and ultrasonic sensor with 3 other people
- Migrated and cloned the contents of the hard drive of the previous generation's submarine to six new SD cards and helped to install ROS
- Helped to plan and conceive strategies to navigate our submarine through the first underwater gateway obstacle of the RoboSub competition held annually in San Diego, CA to helpo enter the semifinals

Technical Skills

Languages: Javascript, Python, C/C++, SQL (Postgres), HTML/CSS, R
Frameworks: React, WordPress
Developer Tools: Git, Docker, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, PowerBI, ArcGIS
Libraries: pandas, NumPy, Matplotlib