

Skills

- Languages: Python | C | Java | JavaScript | SQL | VBA
- Technologies: MongoDB | Express | React | React Native | Node | Firebase | Supabase | Next.js | Pandas | NumPy
- APIs: HuggingFace | Yahoo Finance | Finnhub | Google Gemini | Anthropic | OpenAI | Spotify | PokeAPI

Experience

- GoNetZero | AI/ML Software Engineer InternFebruary 2025
- Golden Island | Software Engineer InternDecember 2024 - February 2025
  - Developed a *Fleet Tracker* with **Pandas (Python)** to track locations of **1000 ships** with **600,000 lines of data daily**
  - Implemented the algorithm to track when ships are near each other using the **Haversine Formula**, and fine tuned the parameters to accurately determine when ships are docking with over **80% accuracy**
  - Integrated the above into a desktop application using **PyQt**, allowing for **100% data streaming up time**
- Sheares Web | Software DeveloperAugust 2024 - Present
  - Developed a *Full-Stack Hostel Management Web Application* with **React** and **Firebase** with **468 users**
  - Developing a *Mobile Hostel Application* using **React Native** and **Firebase** that will serve up to **500 users** at a time
  - Implemented the *Newsletter Feature* and *Authentication* with **React Native** and **Firebase** with different access levels, allowing **Access Control** to the Post-Newsletter functionality
- Biz IQ Academy | Finance Executive InternApril 2023 - June 2023
  - Automated financial payment receipt processing using **VBA**, increasing efficiency by up to **8 times**

Projects

- Jobu | React, Firebase, CSSNovember 2024 - December 2024
  - Developed a **full-stack job application tracker** that aims to make tracking job applications organised and user-friendly
  - Implemented features like job adding, event adding for interviews and assessments, status updates for offers, rejections, ghosting and acceptance, and graphical representation for job application statistics
- Spotifyyou | React, Supabase, CSS, Google Generative AI APINovember 2024 - December 2024
  - Developed a **full-stack Spotify Companion** that aims to listening statistics and song recommendations more accessible
  - Implemented features such as Gemini-powered AI recommendation engine where users can either get song recommendations based on their top listening, or enter a prompt and have the engine generate a playlist based on the user's prompt, processed through **Natural Language Processing**
- FeinAlpha | React, MongoDB, Express, NodeNovember 2024 - December 2024
  - Developed a **full-stack portfolio tracker** that aims to make tracking your stocks portfolio, as well as watch-list easier.
  - Implemented features such as portfolio statistics, graphical representations and watchlists
- QuerySense | Next.js, CSS, Google Generative AI APINovember 2024 - December 2024
  - Developed *CSV Data Analyser* aimed to make making sense of CSV file data easier and more intuitive.
  - Implemented features such as **Natural Language Processing** for user inputs, providing logical insights on the data based on the user's prompt written in natural language
  - Implemented features such as file information (displaying columns barring id) and graphical representations for data
- HowTheFeels | Next.js, CSS, Hugging Face APINovember 2024 - December 2024
  - Developed a *Sentiment Analyser* aimed to make analysing long paragraphs easy
  - Implemented features such as an intuitive text input field and dynamic background colours depending on result
  - Analysed input text using the **BERT Model** from **Hugging Face API**

Education

- National University of Singapore | GPA: **First Class Honours**August 2023 - May 2027
- Bachelor of Computing in *Computer Science* with a Minor in *Quantitative Finance*
  - Relevant coursework: Database Systems | Introduction to AI and Machine Learning | Programming Methodology I and II | Discrete structures | Data Structures and Algorithms | Introduction to Computer Networks | Introduction to Information security | Calculus for Computing | Linear Algebra for Computing | Probability and Statistics
  - Certifications: Introduction to Structured Query Language (SQL) - *University of Michigan* | Introduction to Generative AI - *Duke University* | Python and Statistics for Financial Analysis - *The Hong Kong University of Science and Technology* | Platform Thinking: What's beyond Uber - *Politecnico di Milano*

Hackathons

- CatalystX 2024 | FinalistOctober 2024
- PSA CodesprintOctober 2024