Darren Lim

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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 Intern*   *February 2025*

Golden Island | *Software Engineer Intern*   *December 2024 - February 2025*

- Developed a *Fleet Tracker* with **Pandas (Python)** to track locations of **1000 ships** with **320,000 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 **90% accuracy**
- Integrated the above into a desktop application using **PyQt**, allowing for **100% data streaming up time**

Sheares Web | *Software Developer*   *August 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 Intern*   *April 2023 - June 2023*

- Automated financial payment receipt processing using **VBA**, increasing efficiency by up to **8 times**

Projects

Jobu | *React, Firebase, CSS*   *November 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

Spotifyou | *React, Supabase, CSS, Google Generative AI API*   *November 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, Node*   *November 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 API*   *November 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 API*   *November 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 colors 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 2026*

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 | Finalist   *October 2024*

PSA Codesprint   *October 2024*