

Contact

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Top Skills

Docker
Containerization
Podman

Certifications

CS50x 2021
Orbital 2023 - Level of Achievement:
Apollo 11
CS50AI

Honors-Awards

College Honour Roll (Class of 2019)
Edusave Awards for Achievement,
Good Leadership and Service
(EAGLES)
CCA Award (Individual and Team)
Best Soldier of the Month
NUS Merit Scholarship

Timothy Leow

Computer Science Undergraduate at NUS
Singapore, Singapore

Summary

I have a strong interest in LLMs (Large Language Models) and how they are already playing a big part in our world today. Currently working on one application of them in a personal project of mine!

In my free time, I enjoy listening, playing and performing jazz. Some greats that I love are Count Basie, Cannonball Adderley, and Freddie Hubbard :)

Experience

DSO National Laboratories
Software Engineer Intern
May 2024 - August 2024 (4 months)
Singapore

- Constructed a robust back-end for a chatbot with Retrieval-Augmented Generation (RAG) leveraging tools such as vLLM (for model serving), Flask (for API server) and LangChain (for RAG logic).
- Built and containerized a PDF vectorizer with LangChain and Podman to automatically maintain a vector database which powered the data retrieval process.
- Created comprehensive documentation and collaborated with the front-end developer to deliver a robust solution which greatly helped with onboarding users to a newly revamped procurement system.

National University of Singapore
Teaching Assistant
August 2023 - November 2023 (4 months)
Singapore, Singapore

Guided a group of 8 students through the Programming Methodology module. Regularly graded and gave constructive feedback on assignments. Strengthened their understanding of basic algorithms, data structures and programming languages.

educa8.info

Frontend Web Developer

January 2022 - August 2022 (8 months)

Singapore

Front-end developer of web-app - streamlined the processes of a client company through digitalization of physical documents, mainly using Vue.js and the Quasar Framework.

Developed interfaces to provide ease of data entry and better traceability of business transactions.

The implementation of this project significantly improved the company's working efficiency, allowing its staff to work 3 hours less every single day.

Singapore Armed Forces (SAF)

Commanding Officer's Personal Assistant

March 2020 - January 2022 (1 year 11 months)

Singapore

Notable achievements:

-Led a team to create a Telegram Bot for the Battalion and managed the unit's Telegram Channel. This Bot was recognized as an accessible information repository for Transport Safety and subsequently adopted by the entire formation.

-Revamped the quarterly Safety Quiz

-Presented to the Chief of Army on merging the above 2 elements into one Safety Education Framework

-Planned and organised Battalion Safety and Security Day.

-Awarded Best Soldier of the Month

Education

National University of Singapore

Bachelor of Computing (Honours), Computer Science · (August 2022 - May 2026)

Nanyang Junior College

GCE 'A' Levels, Science Stream · (January 2018 - December 2019)

Ang Mo Kio Secondary School

GCE 'O' Levels, Triple Science · (January 2014 - December 2017)