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EDUCATION

• Singapore Institute of Technology (SIT)

Penultimate Year

Bachelor's of Science in Applied Artificial Intelligence

Aug 2022 - Expected May 2025

o Awards: SIT Scholarship (Full ride), awarded to just 13 students among 3000+ first-year candidates

Experience

• PropNex Realty Pte Ltd

Singapore

AI Engineer Intern

Jan 2024 - Present

- o Involved in the GenAI team, developing AI tools to optimize agent workflows using Next.js, FastAPI and OpenAI
- Automated data generation and evaluation pipeline for finetuning LLM models, reducing manual data labelling and evaluation time by 80%
- Conducted iterative prompt engineering to optimize prompts to precisely align with use case and requirements.
- Fine-tuned OpenAI GPT models, boosting evaluation accuracy from 50% to 94%, meeting project requirements.

• Singapore Institute of Technology

Singapore

Software Engineer

Apr 2023 - Dec 2023

- Developed a web app with ReactJS and Firebase to collect audio and annotation data from 1000+ students, achieving a 95% reduction in human error.
- Led the development of multi-lingual audio-to-text transcription and segmentation API with WhisperAI and FastAPI, reducing transcription time by 90%
- o Optimised model parameters to achieve 10% reduction in Character Error Rate (CER) and 20% improvement in timestamp accuracy
- Containerized the API using Docker and leveraged CUDA GPU capabilities to enhance performance by 700%

• Redfluencer

Singapore

Software Engineering Intern

Apr 2022 - Nov 2022

- o Delivered mobile app features with React Native, resulting in a 20% increase in user engagement.
- Addressed bugs, leading to a reduction in crashes and a 15% improvement in user satisfaction scores.
- Initiated the design of certain app's features, including the redesign of the app's reward system

Awards

• 1st Place: SIT x Target Media x People's Association - BeyondTheScreen

Nov 2023

Created interfaces that display personalised content based on registered bluetooth devices nearby, with a CMS

• 2nd Place: SIT x Govtech - Hackrift

Aug 2022

Designed a mobile app aimed at helping elderly connect with each other through similar interest and location

Projects

• AskTelegram: Personal Project (WIP)

Jan 2024

- Developed a Telegram bot can be added into groups and users asks questions regarding the group conversation.
- Implemented a summarization model to summarize daily conversations and provide insights to group members.

• Advanced Commuter Profiling Analysis: Integrated Team Project

Jan 2024 - Present

- Collaboration with SMRT to analyze ridership transaction data and develop a commuter profiling system
- Working in a team of 4 to analyze over **600 million transactions**, utilizing clustering algorithms to identify commuter patterns and preferences

• yixing.info: Portfolio Website

Dec 2023

- Built a personal website with Next.js, achieving a perfect Real Experience Score of 100.
- Implemented a chatbot using generative AI, leveraging a vector database for knowledge storage and prompt engineering to deliver accurate responses to questions about me.

SKILLS AND TECHNOLOGIES

- Languages and Libraries:: Python (+ Pytorch, Flask, FastAPI, Pyspark, Selenium, Pandas, NumPy), JavaScript (+ React, React Native, Next.is, Express.JS), Typescript, PHP, Java, C, SQL, NoSQL
- Technologies:: Firebase, Supabase, Docker, Pinecone, Redis, AWS (S3, EC2, RDS), Hadoop, Spark, HuggingFace