JUSTIN CHEAH YUN FEI

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EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE (NUS)

Aug 2022 - Present

Bachelor of Computing in Computer Science, Bachelor of Business Administration ASEAN Undergraduate Merit Scholar, CAP 4.42/5.00 (CS), 4.63/5.00 (BBA)

HWA CHONG INSTITUTION

Jan 2016 - Dec 2021

GCE A-Level

Distinction in H2 Mathematics, H2 Physics, H2 Economics, H2 Knowledge and Inquiry 90/90RP ASEAN Scholar, Outstanding Student Award, Hwa Chong Diploma with Distinction

WORK EXPERIENCE

CODOMO PTE LTD

May 2023 - Present

Al and Software Engineer

- Integrate OpenAI's API into backend in Ruby on Rails with Langchain and implement Rolljak's AI activity generator from scratch for 7 features which have been pushed to production. Working on additional features such as document, URL and text upload support. Implement frontend features and P1 bug fixes with javascript, jQuery and bootstrap.
- Introduce ways to sanitize user inputs, prevent prompt injection attacks, and reduced query time to 30% by performing concurrent programming. Improve accuracy of results by more than 50% and with prompt engineering, developed functions to parse output generated and integrate into codebase.
- Automate workflow such benchmarking of question generation results by different prompts, and comparison with competitors' results using Python. Collaborate with team members in an AGILE environment with SCRUM framework. Exposed to procedures such as reviewing pull requests, sprint planning and review, leading deployment meetings.

RAFFLES HALL Student Frontend Developer

Aug 2022 - Mar 2023

 Collaborated with other frontend developers to maintain Raffles Hall's web application serving more than 700 people by primarily fixing bugs. Implemented frontend components for the Raffles SuperApp in React, Nextjs, javascript, CSS.

SKILLS

Technical: Python, Java, Javascript, Git, Typescript, CSS, Reactjs, Nextjs, Ruby on Rails, bootstrap, APIs, Firebase, React Native , Tailwind

Language: English (Native), Mandarin (Native), Malay (Limited Proficiency)

PROJECTS

SOULSCRIBE

May 2023 - Present

- Building SoulScribe, a gamified Al-powered journaling app with a partner for Orbital with React Native, Firebase for authentification, cloud functions and database, Nodejs for backend, Jest for unit-testing and Python for prompt testing. Accomplished CI/CD with Github workflow, and deployed app to App Store.
- Leverages on libraries such as OpeAli's text-to-text API and Stable Diffusion's text-to-image API for generative AI functions, Langchain and Pinecone for vector database management, Nativewind CSS for styling.
- Implemented features such as journaling (where users can earn coins by journaling consistently), recap (where
 personalized art and highlight are generated based on users' entries every week), shop (where users can buy
 collectables like characters and pets to customize the appearance of their home page), an AI chatbot, and a feature
 that allows users to ask questions about their past (which uses vector embeddings to store and retrieve entries
 based on semantics).

TRADING MODEL

Feb 2023

• Processed 80GB of historical trading data in the Huawei Innovation Challenge using machine learning to predict selling prices of stock and add buy/sell orders to maximize profit with Python, sklearn decision tree, pandas, numpy.

COVER LETTER BOT

Jan 2023

• Automated creation of personalized cover letters based on user's profile and company's values by leveraging on Artificial Intelligence, making use of APIs, web crawlers, Firebase, Python, GCP, increasing efficiency by 300%.