

James Sungarda

THE UNIVERSITY OF HONG KONG

G1203, 12/F, D.H. Chen College, 4 Police School Road, Wong Chuk Hang, Hong Kong

☎ (+852) 4429 8862 | ✉ sungardajames@gmail.com | 🏠 invalidcode.me | 📺 invalidcode232 | 🌐 james-sungarda

Education

The University of Hong Kong

Hong Kong SAR

BACHELOR OF ENGINEERING (COMPUTER SCIENCE)

Sep. 2024 - Jun. 2028 (expected)

- Recipient of HKU Undergraduate Entrance Scholarship for Outstanding Academic Talents.
- Full scholarship awarded to outstanding freshmen in recognition of their academic result obtained before their admissions.

Skills

Programming Languages C++, Python, Javascript/Typescript, HTML/CSS, SQL, Bash, Lua, TeX

Frameworks Next.js, React, Django

Languages English, Putonghua, Cantonese, Indonesian

Experience

Tam Wing Fan Innovation Wing

Hong Kong SAR

RESEARCH ASSISTANT

Jun. 2021 - Present

- Trained BERT-based language models for text classification, enhancing contextual awareness by using domain specific pre-training.
- Architected and built a full-stack application with user management system with Next.js, MongoDB, and TailwindCSS to serve as the primary model interface.
- Deployed scalable RESTful API endpoints to deliver real-time model inferences between the backend LLM model, database, and the user-facing application.
- Research is supervised under Professor Kao, Benjamin C.M of The University of Hong Kong

PT. Moxcal Teknologi

Jakarta, Indonesia

SOFTWARE ENGINEER

May 2024 - Aug. 2024

- Developed a web (HTML, Bootstrap, and JavaScript) and WhatsApp based AI chatbot solution and user interface to automate customer support:
- Built a Natural Language Processing (NLP) framework to accurately classify user intent and extract key entities (NER) from user messages.
- Enabled the chatbot to communicate through both text and natural-sounding speech through voice recognition and text-to-speech.

Projects

Arang

Typescript, Next.js, PostgreSQL, Azure

Oct. 2024

- Arang is a **spaced repetition** algorithm flashcards app which combines traditional digital flashcards functionality with LLM models using **Retrieval Augmented Generation (RAG)** to intelligently generate flashcards questions and answers based on images, text, and videos.
- **Full-stack web application** written in TypeScript, using the **Next.js framework with PostgreSQL** as backend database. The app connects to Azure's OpenAI service as the LLM provider.

Timeblockr

Typescript

Jan. 2025 - Present

- Smart AI assisted calendar which uses **RAG** to retrieve and read existing calendar lists e.g. Google Calendar, connects to **Google Maps and OpenWeather** to intelligently assign time slots.
- AI recommendations and schedule adjustments based on **real time data** such as traffic data and weather forecasts.
- LLM (hosted in Azure) used are given a custom prompt and **fine-tuned with datasets** to improve output consistency and accuracy.

Honors & Awards

2024 **Second Runner Up**, HKU CSAxDSA Sociathon 2024

Hong Kong SAR

2022 **Finalist**, National Olympiad in Informatics (National level)

Indonesia

2023 **Finalist**, National Schools Debating Championship

Indonesia

Extracurricular Activity

HKU English Debate Society

The University of Hong Kong

COMPETITIVE TEAM

Sep. 2024 - Present

- Participated in numerous English debating competitions, competing in various formats.
- Regularly hosted debate workshops and training sessions for new members, as well as mentoring junior debaters.