James **Sungarda**

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Education

The University of Hong Kong   *Hong Kong SAR*

Bachelor of Engineering (Computer Science)   *Sep. 2024 - Jun. 2028 (expected)*

- Cumulative GPA: 3.75/4.30.
- 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

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

HKU CSAxDSA Sociathon 2024

Second Runner Up   *Oct. 2024*

- **Second runner up** at a group hackathon hosted by the University of Hong Kong in collaboration with Cathay Pacific, competing against **over 60 contestants and 18 groups**.
- Developed a working **full stack web application** with **Next.js, Prisma ORM, and PostgreSQL** working solution to education inequality, and pitched it to professors and executives.
- Worked with a team of 5, and was responsible for software prototype and technical implementation.

National Science Olympiad in Informatics

Qualifier   *Aug. 2022*

- Achieved **3rd place** in province-level olympiad.
- Competed in the **largest** high school informatics competition in Indonesia, as part of qualifiers for IOI 2023.
- Solved problems related to **algorithms, computational thinking, and programming languages** such as C++ and Python.

Extracurricular Activity

Tam Wing Fan Innovation Wing   *The University of Hong Kong*

Member   *Oct. 2024 - Present*

- Research and development of innovative projects in the field of computer science.
- Participated in various hackathons and innovation challenges, collaborating with a diverse team of students.

HKU English Debate Society   *The University of Hong Kong*

Competitive team   *Sep. 2024 - Present*

- Participated in numerous English debating competitions, competing in various formats such as BP, AP, and WSDC as part of HKU EDS Core Competitive team.
- Regularly hosted debate workshops and training sessions for new members, as well as mentoring junior debaters.
- Gained experience in public speaking, critical thinking, and argumentation skills.