

Gabriel Y. G. Yang

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Education

National University of Singapore (NUS) – Year 3

Aug 2021 – Present

Bachelor of Computing (Computer Science) GPA: 4.44/5

- Teaching Assistant – Programming Methodology 1 and 2
- [VIP award recipient](#)
- Clubs – Project Director in Social Impact Catalyst, Insight Writer in Global Research Consulting, Raffles Hall Leader

Stanford University – SCPD (Business)

Jan 2023 – Aug 2023

Work Experience

EzGreen – Co-Founder (Singapore)

Dec 2021 – Present

Start-up Business Summary: We aim to simplify and redefine how society acts in the consumerist culture with a gamified, community journaling application to encourage and motivate individuals to lead a green lifestyle.

- [Software](#) - Designing a gamified social platform for businesses and consumers. Built a mobile application on Firebase, Flutter and Dart.
- Community Building - Hosted webinars and workshops building up 500 enthusiasts in total on waste management and entrepreneurship, connecting experts with enthusiasts.

Workstream – Full Stack Engineer (California)

Jan 2023 – Present

Full-time

- **Web Application** - Ruby on Rails, Sidekiq, ReactJS, Segment, PostgreSQL, MongoDB, Twilio. Completely revamped and built new notifications systems for new features. Designed and built notification toggles to improve user experience. Increased engagement by about 20% from the notifications
- **Security** - Remediated 10 critical and 30 high priority vulnerabilities in various repositories. Enforced new security measures against generative AI prompt hacking in Workstream's new AI product.
- **Data Science** - Building a predictive hiring model for customer scale to increase engagement of users. Using SQL and querying Snowflake to get 6 Million rows of unstructured data.

Koios – Frontend Engineer (Singapore)

Sep 2022 – Nov 2022

Part-time

- Building a software application with ReactJS and ExpressJS.

Co-Curricular Activities and Projects

Student Researcher – UC Berkeley (California)

Aug 2023 – present

- Building an AI tool to help students learn at their level, detailed by the [Copenhagen Consensus](#) as one of the most important problems to solve in education. Working with Professor Mark Kubinec in Chemistry and Dan Garcia in Computer Science.

Aspire AI – Co-founder (Singapore)

Sep 2023 – present

- Building a learning tuition system to increase accessibility of education for students. Received \$10k in grant from the government to build the solution to the problem. We are offering a 1-to-1 tutoring solution for students.

Developers Club – Raffles Hall (Singapore)

Aug 2021 – Aug 2022

- Converted a SQL to a No-SQL database using MongoDB and Flask.
- Improved query time by reordering indexes. Overall improvement speed-up of web application about 10% through changes in the database.
- Administered and ran a Hackathon.

Hall Administrator – Raffles Hall Leader (Singapore)

Aug 2021 – Apr 2022

- Managing a team with 3 main responsibilities – Webpage, Hardware Networking and Database.
- *Webpage* – General maintenance. Interpret analytics and edit elements based on the flow of traffic.
- *Hardware Networking* – Server and storage maintenance.
- *Database* – Used PHP and ApacheDB to upgrade registration processes. Improved convenience of Hall leaders by an additional feature to view hall points, reduced registration process from 4 days to 3 days.