Gan Chin Song

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EDUCATION

Singapore University of Technology and Design (SUTD)   **Sep 2021 - May 2025**
- Bachelor of Engineering (Computer Science and Design), Honours
- Focus Track: Software Engineering, Financial Technology
- GPA: 4.3
- ASEAN Scholarship

WORK EXPERIENCES

HelloHolo (Startup), Microsoft Partner
Software Developer *(part-time)*   **May 2022 - Present**
- Developed a web app using **Laravel** and **Azure**, integrated with DBS, OCBC, and Singpass, enhancing engagement for over 15,000 event attendees, leveraging **Pusher** for real-time communication.
- Programmed an Android and iOS application using **Flutter** for Google and ENMSG, providing 2,000 attendees with streamlined access to event details, utilizing i18n for multi-language support.
- Refactored a web application using **React** and **Next.js**, resulting in a 20% reduction in code while implementing appropriate design patterns and ensuring a robust system.
- Programmed a Mobile Application using **Java** and **NVIDIA CloudXR** to demonstrate XR capabilities on smartphones, successfully attracting over 500 participants at an event.

ACADEMIC PROJECTS

Automated News Collecting and Sharing Platform *(Full-stack Developer & Team Leader)*
- Led a 6-person **Agile** team, developed a **Ruby on Rails** based **RESTful API**, powered by **PostgreSQL**, **Cloud SQL**, **Cloud Bucket**, and **Cloud Run**, to serve news data to the JavaScript front-end.
- Utilized **Google Cloud Platform** services for news classification (Natural Language API) and summarization (Vertex AI), reducing search and summarization time by 75%.
- Designed an intuitive **React** based user interface, enhancing the news consumption experience, and deployed it on **App Engine**.
- Conducted comprehensive software testing (97% test coverage), including **end-to-end**, **integration**, and **unit tests**, using jest, cucumber, and RSpec to ensure software reliability.

HDB Community App *(Full-stack Developer)*
- Developed a **Java**-based HDB community app that fostered interaction among residents.
- Designed the backend system, employing **Firebase** and **RESTful API** to facilitate data delivery, with documented **UML diagrams**.
- 3rd place in SINGTEL SUTD Award

Shell and Daemon Manager *(C Developer)*
- Developed a **Unix** shell using **C**, capable of accepting user input and parsing commands.

CO-CURRICULAR ACTIVITIES

CHINESE ORCHESTRA (*Vice President*)
- Spearheaded a 250-member Chinese orchestra as Vice President.
- Organized 2 annual concerts with audiences exceeding 2,500 attendees.

SKILLS

Programming Languages: JavaScript, Java, SQL, Dart, PHP, Python, Ruby, C
Frameworks: React, NodeJS, Express.js, Next.js, TypeScript, Flutter, Laravel, Rails, MongoDB
Technology: Docker, git, UNIX shell, Software Architecture Diagram, Linux Kernal, GCP, Azure, Figma

Internship Availability: 01/05/2024 – 06/09/2024