

KEE SONG YANG

+65 8715 7381 contact@songyang.dev github.com/s0ngyang linkedin.com/in/keesongyang www.songyang.dev

EDUCATION

National University of Singapore (NUS)

Aug 2022 - Present

Bachelor of Computing (Computer Science), Honours

- Final Year student with relevant coursework: Software Engineering, AI & ML, Database Systems, Information Security

University of Colorado, Boulder

Aug 2024 - Dec 2024

Student Exchange Programme, Fall 2024, Computer Science

- GPA: 3.75/4 — Relevant coursework: Operating Systems, Algorithms, Network Systems

WORK EXPERIENCE

Ola Chat (Singapore), Software Engineer Intern

Jul 2025 - Present

- Built a mobile-responsive static **React** page using **Vite** that dynamically loads domain-specific assets across 3 domains, streamlining deployment workflows and reducing configuration complexity

Voltade (Singapore), Software Engineer Intern

Jan 2025 - Jun 2025

- Led the launch of an AI curriculum planner adopted by 200 users across 28 preschool branches by **running weekly customer meetings**, live demos, and continuous feedback loops; resolved production issues
- Developed a video-to-report tool using **React** with **TanStack**, FFmpeg to scale and extract frames, and OpenAI GPT to identify students, reducing teachers' time spent per report by 75%
- Automated customer migration across platforms by creating **CRON** jobs in **TypeScript** to extract data from external sources, implementing idempotent logic to ensure consistency across 20000+ records
- Learnt **Vue** and **Ruby on Rails** from scratch within 2 weeks to launch a WhatsApp broadcast feature for CRM app, enabling clients to instantly launch marketing campaigns to 500+ customers

Podsmart AI (United States), Software Engineer Intern (Remote)

May 2024 - Aug 2024

- Built an intuitive audio player in **React**, enabling UX through progress bar markers for key topics, synchronized playback with transcript timestamps, and direct audio jumps to identified entities
- Devised a usage tracking schema using **FastAPI**, **Supabase** with **PostgreSQL** to precisely track and enforce user monthly podcast summarisation limits, eliminating a loophole that allowed unlimited access to transcribed episodes
- Resolved a critical authorization flaw by implementing **role-based access control** middleware using **JWT**, preventing free-tier users from accessing premium features
- Optimised **API performance** for episode page by adding index to **SQL** query, which sped up page loading by 60%

NUS Computing (Singapore), Teaching Assistant

Jan 2023 - Jun 2023

- Collaborated closely with Prof. Tan Tiow Seng to develop examination grading scheme for the CS1010X Programming Methodology course, taught OOP, Dynamic Programming in **Python** and **Java**

PROJECTS

TypeDash V2 ([Repo](#) | [Link](#))

Jul 2025 - Present

- A type-racing game built with **React** and **WebSockets** (previously **Socket.IO**) to broadcast live typing progress in multiplayer rooms
- Migrating backend from **Express.js** to **Golang** for better concurrency support; implementing a **Redis**-powered leaderboard system for real-time ranking updates

Exportifellas ([Repo](#) | [Link](#))

- Built a plaintext playlist extraction feature using the **Spotify API** in an open-source fork, deployed for internal use in NUS Raffles Hall, streamlining the song voting process for all future performances

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, SQL, Python, C, Java

Frameworks: React.js, Next.js, TanStack, Tailwind CSS, Hono.js, FastAPI, Socket.IO, Firebase, Supabase, Drizzle ORM

Technologies: Linux, Bash scripting, Docker, LLMs, CI/CD

LEADERSHIP

NUS Raffles Hall Acoustic Band, Vice-President

Apr 2023 - Apr 2024

- Led artistic and logistics for major performances, including an intra-university concert and an album recording project