

# KEE SONG YANG

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## 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 (On-site)

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 (On-site)

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

- Revamping a real-time type racing web app with single and multiplayer modes, adding typing statistics tracking to enhance user engagement and performance insights
- Migrating backend from **Express.js** to **Golang** for better concurrency support; implementing a **Redis**-powered leaderboard system for real-time ranking updates
- Built with **React** and **WebSockets** using **Socket.IO** to broadcast live typing progress to users in real time

### 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

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

**Frontend:** React.js, Next.js, TanStack, Tailwind CSS

**Backend:** 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