

# KEE SONG YANG

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## EDUCATION

### National University of Singapore (NUS)

Expected Jun 2026

*Bachelor of Computing (Computer Science), Honours*

- **Relevant Coursework:** Software Engineering, Data Structures & Algorithms, Operating Systems, Databases, Computer Networks
- **GPA:** 4.47/5, Teaching Assistant for CS1010X Programming Methodology — Python

## WORK EXPERIENCE

### [Alta Exchange](#) (Singapore), *Full-Stack Software Engineer Intern*

Jan 2026 - Present

- Maintained a microservices ecosystem using **NestJS**, **React**, and **TypeORM** deploying serverless containerized applications on Google Cloud Platform with MySQL databases

### [Ola Chat](#) (Singapore), *Frontend Software Engineer Intern*

Jul 2025 - Dec 2025

- Engineered **React** mini-games with **WebView**, ensuring UI consistency across devices through meticulous design reviews and UX through performance optimizations, including lazy loading and **TanStack Query** caching
- Architected a modular **CI/CD** orchestration framework using **GitHub Actions** and **Aliyun Flow** with bash scripts, improved separation of concerns and reduced staging server load
- Refactored legacy URL routing across client, server, and database layers, standardised URL structure and optimised **nginx** configuration to eliminate technical debt and streamline request handling
- Deployed a centralized observability pipeline via **Sentry**, integrating session replay tracking and Core Web Vitals monitoring to automate error detection and ensure system reliability

### [Voltade](#) (Singapore), *Full-Stack Software Engineer Intern*

Jan 2025 - Jun 2025

- Spearheaded the end-to-end architecture of an AI curriculum planner adopted by 28 preschool branches, showcasing attention to detail by iteratively refining features through weekly cross-functional stakeholder reviews and live demos
- Engineered a robust ETL pipeline using **Graphile Worker** job queue and **PostgreSQL**, automating the extraction and idempotent transformation of 20,000+ records to ensure data synchronisation with external platforms
- Diagnosed and patched a critical **Supabase** authentication bug by analysing server logs to identify email prefetching conflict and restore access for enterprise Outlook users
- Developed a video-to-report system using **React** and **FFmpeg** uniform sampling, leveraging OpenAI tool calls for automated student identification, cutting report generation effort by 75%
- Implemented a microfrontend architecture using the **single-spa** framework, enabling dynamic deployment of independently built modules via Supabase Edge Runtime

### [Podsmart AI](#) (United States), *Full-Stack Software Engineer Intern (Remote)*

May 2024 - Aug 2024

- Devised a usage tracking system using **FastAPI** & **Supabase**, eliminating a loophole that allowed free access to transcribed episodes
- Resolved a critical authorisation issue by implementing **role-based access control** middleware using **JWT**
- Identified and resolved **SQL** bottleneck by adding a composite index, optimizing API performance and reducing load time by 60%

## PROJECTS

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

Jul 2025 - Present

- A real-time type-racing game using **React** with **TanStack**, **Golang** with **Gin** & **WebSockets**, deployed using **Docker** Compose

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

Jan 2025

- Ideated a plaintext playlist extraction feature using the Spotify API in an open-source fork, deployed for internal use in NUS Raffles Hall to streamline song voting process

## TECHNICAL SKILLS

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

**Technologies:** React.js, TanStack, Tailwind CSS, FastAPI, Socket.IO, Firebase, Supabase, Drizzle ORM, Linux, Bash, LLMs, Sentry