

# KEE SONG YANG

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## EDUCATION

<b>National University of Singapore (NUS)</b> <i>Bachelor of Computing (Computer Science), Honours</i>	Expected Jun 2026
<ul style="list-style-type: none"><li>• <b>Relevant Coursework:</b> Software Engineering, Data Structures &amp; Algorithms, Operating Systems, Databases, Computer Networks</li><li>• <b>GPA:</b> 4.47/5, Teaching Assistant for CS1010X Programming Methodology — Python</li></ul>	

## WORK EXPERIENCE

<u>Alta Exchange</u> (Singapore), <i>Full-Stack Software Engineer Intern</i>	Jan 2026 - Present
<ul style="list-style-type: none"><li>• Maintained a microservices ecosystem using <b>NestJS</b>, <b>React</b>, and <b>TypeORM</b> deploying serverless containerized applications on Google Cloud Platform with MySQL databases</li></ul>	

<u>Ola Chat</u> (Singapore), <i>Frontend Software Engineer Intern</i>	Jul 2025 - Dec 2025
<ul style="list-style-type: none"><li>• Engineered <b>React</b> mini-games with WebView, ensuring UI consistency across devices through meticulous design reviews and UX through performance optimizations, including lazy loading and <b>TanStack Query</b> caching</li><li>• Designed a modular <b>CI/CD</b> orchestration framework using GitHub Actions and Aliyun Flow, improved separation of concerns and reduced staging server overhead by 8%</li><li>• Refactored legacy URL routing across client, server, and database layers, standardised URL structure and optimised <b>nginx</b> configuration to eliminate technical debt and streamline request handling</li><li>• Deployed a centralized observability pipeline via <b>Sentry</b>, integrating session replay tracking and Core Web Vitals monitoring to automate error detection and ensure system reliability</li></ul>	

<u>Voltade</u> (Singapore), <i>Full-Stack Software Engineer Intern</i>	Jan 2025 - Jun 2025
<ul style="list-style-type: none"><li>• 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</li><li>• Engineered a robust ETL pipeline using <b>Graphile Worker</b> job queue and <b>PostgreSQL</b>, automating the extraction and idempotent transformation of 20,000+ records to ensure data synchronisation with external platforms</li><li>• Diagnosed and patched a critical <b>Supabase</b> authentication bug by analysing server logs to identify email prefetching conflict and restore access for enterprise Outlook users</li><li>• Developed a video-to-report system using <b>React</b> and <b>FFmpeg</b> uniform sampling, leveraging OpenAI tool calls for automated student identification, cutting report generation effort by 75%</li><li>• Implemented a microfrontend architecture using the <b>single-spa</b> framework, enabling dynamic deployment of independently built modules via Supabase Edge Runtime</li></ul>	

<u>Podsmart AI</u> (United States), <i>Full-Stack Software Engineer Intern (Remote)</i>	May 2024 - Aug 2024
<ul style="list-style-type: none"><li>• Devised a usage tracking system using <b>FastAPI</b> &amp; <b>Supabase</b>, eliminating a loophole that allowed free access to transcribed episodes</li><li>• Resolved a critical authorisation issue by implementing <b>role-based access control</b> middleware using <b>JWT</b></li><li>• Identified and resolved <b>SQL</b> bottleneck by adding a composite index, optimizing API performance and reducing load time by 60%</li></ul>	

## PROJECTS

<u>TypeDash V2</u> ( <a href="#">Repo</a>   <a href="#">Link</a> )	Jul 2025 - Present
<ul style="list-style-type: none"><li>• A real-time type-racing game using <b>React</b> with <b>TanStack</b>, <b>Golang</b> with <b>Gin</b> &amp; <b>WebSockets</b>, deployed using <b>Docker Compose</b></li></ul>	

<u>Exportifellas</u> ( <a href="#">Repo</a>   <a href="#">Link</a> )	Jan 2025
<ul style="list-style-type: none"><li>• 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</li></ul>	

## 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