

TOO HONG YEE JASPER

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[LinkedIn](#) | [Portfolio](#)

PROFESSIONAL SUMMARY

TypeScript- and AI-focused software developer currently in Year 3 of a Diploma in Information Technology at Singapore Polytechnic. Passionate about building practical, thoughtful tools using the T3 Stack (TypeScript, tRPC, Tailwind, Next.js) and AI prompting frameworks (OpenAI, Claude). Actively exploring Model Context Protocols (MCPs) and creating automated workflows via event-based architectures. Always building, self-hosting, and experimenting to push the boundaries of everyday tech.

EDUCATION

Diploma in Information Technology

Singapore Polytechnic — Expected May 2026

Specialization: Software Development

GCE 'O' Levels

2019–2022

TECHNICAL SKILLS

Web & App Development: TypeScript, React.js, Next.js, Node.js, tRPC, Tailwind CSS, ShadCN/UI, HTML5, CSS3

AI & Automation: OpenAI SDK, Claude prompting, AI workflow engineering, Pub/Sub event emitters, Model Context Protocols (MCPs)

API & Auth: RESTful APIs, OAuth2, Google OAuth

Infrastructure & Hosting: Vercel, NGINX reverse proxy, self-hosted NAS setups, CI/CD pipelines

Database: MySQL, PostgreSQL

Prototyping & UI: Figma

General: Java, Python, Git, Agile methodologies, debugging, user empathy, collaboration

PROJECT EXPERIENCE

Collaborative AI Note-Taking Platform (Ongoing)

- Online note-taking site with interactive AI assistance using Gemini.
- Built collaboratively with Dean and Yoon Fay using T3 Stack and ShadCN components.
- Joined mid-development, contributing to feature implementation and refinement.
- [GitHub](#) | [Demo](#)
- Stack: TypeScript, Next.js, tRPC, Tailwind CSS, ShadCN/UI, Gemini AI

AI Video Hook Creator & Self-Hosted Platform (Completed)

- Self-hosted tool that transcribes videos, identifies compelling hooks, and splices + captions using OpenAI.
- Backend built with Flask, deployed on Mac Mini with NGINX reverse proxy.

- *Stack: Python Flask, FFmpeg, OpenAI API, NGINX, Waitress, Static IP*

Spwipe – AI Music Discovery Platform (Ongoing)

- *Music discovery web app with swipe-based interface and vibe profiling.*
- *Integrates Spotify and Deezer APIs to analyze playlists and suggest tracks.*
- *[GitHub](#) | [Demo](#)*
- *Stack: Next.js 15, TypeScript, tRPC, Prisma, PostgreSQL, Tailwind CSS*

WORK EXPERIENCE

Counter Staff

Singapore — Aug 2023 – Oct 2023

- *Managed daily store operations including opening/closing and customer service*
- *Maintained hygiene standards and quality control*
- *Developed time management and communication skills in a fast-paced retail setting*

INTERESTS

- *AI-driven tools & workflow design*
- *Model Context Protocols (MCPs)*
- *Self-hosting & Linux systems*
- *Game development & interactive tech*
- *Open-source tools, bouldering*