

Cheng Yi Xing

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EDUCATION

- **Singapore Institute of Technology (SIT)** Penultimate Year
Bachelor's of Science in Applied Artificial Intelligence Aug 2022 – Expected May 2025
 - **Awards:** SIT Scholarship (Full ride), awarded to just 13 students among 3000+ first-year candidates

EXPERIENCE

- **PropNex Realty Pte Ltd** Singapore
Tech Development Intern Jan 2024 - Present
 - Involved in the GenAI team, developing AI tools to optimize agent workflows using NuxtJS, FastAPI and GenAI
- **Singapore Institute of Technology** Singapore
Software Engineer Apr 2023 - Dec 2023
 - Developed an web app with ReactJS and Firebase to collect audio and annotation data from **1000+ students**, achieving a **95% reduction in human error**.
 - Led the development of multi-lingual audio-to-text transcription API with WhisperAI and FastAPI, **reducing transcription time by 90%**
 - Optimised model parameters to achieve **10% reduction in Character Error Rate (CER)** and **20% improvement in timestamp accuracy**
 - Containerized the API using Docker and leveraged CUDA GPU capabilities to enhance performance by **700%**
- **Mofunland** Singapore
Full Stack Developer Nov 2022 - Jan 2023
 - Led end to end design and development of webpage for Mofunland cruise event which converted **total sales exceeding \$100,000**.
 - Implemented a booking system using ExpressJS and mySQL with automated email system and stripe webhooks
- **Redfluencer** Singapore
Software Engineering Intern Apr 2022 - Nov 2022
 - Delivered mobile app features with React Native, resulting in resulting in a **20% increase in user engagement**.
 - Addressed bugs, leading to a **reduction in crashes** and a **15% improvement in user satisfaction scores**.
 - Initiated the design of certain app's features, including the redesign of the app's reward system

AWARDS

- **Top 3: SIT x Target Media x People's Association - BeyondTheScreen** Nov 2023
Created interfaces that display personalised content based on registered bluetooth devices nearby, with a CMS
- **2nd Place: SIT x Govtech - Hackrift** Aug 2022
Designed a mobile app aimed at helping elderly connect with each other through similar interest and location

PROJECTS

- **yixing.info: Portfolio Website** Dec 2023
 - Built a personal website with Next.js, achieving a perfect **Real Experience Score of 100**.
 - Implemented a chatbot using generative AI, leveraging a vector database for knowledge storage and prompt engineering to deliver accurate responses to questions about me.
- **InClubSIT: Club Management System** Oct 2023
 - Led the development of a centralised platform for SIT students to find and join clubs, and get notified of events
 - Collaborated in a team of 6 to deliver a full-stack web app with NextJS, Firebase, FastAPI, mySQL
- **Hoobi: Digital Loyalty Program** Jan 2023
 - Utilized ReactJS and Firebase to develop a production-ready application serving merchants and customers.
 - Empowered customers with seamless stamp and reward redemption features.
 - Achieved a remarkable 100% satisfaction rate based on customer feedback for the Hoobi app.

SKILLS AND TECHNOLOGIES

- **Languages and Libraries::** Python (+ Pytorch, Flask, FastAPI, Pyspark, Selenium, Pandas, NumPy), JavaScript (+ React, React Native, Next.js, Express.JS), Typescript, PHP, Java, C, SQL, NoSQL
- **Technologies::** Firebase, Supabase, Docker, Pinecone, Redis