

Ong Shi Hui, Magenta

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Education

Singapore University of Technology and Design

2023 – 2027

B.Eng. in Computer Science and Design

Experience

Steamunity (Design Mentor)

Nov 2024 – Present

Mentored **4 secondary** and **2 polytechnic** students in **design thinking**, guiding prototyping and solution development.

Private Tutor (Physics, Chemistry, Math, Programming)

Aug 2023 – Present

Students achieved **100% A-grades** in H2 Physics/Math, avg. **6.5-grade** improvement in O-Level Physics. **Simplified programming concepts** through hands-on mini projects, adapting to individual learning needs.

L.E. Cafe Confectionery and Pastry

Dec 2022 – Feb 2023

Optimized logistics across **3 stores**, reducing order processing time by **20%**. Resolved **95% of inquiries** efficiently.

Projects

GenEd — AI-Powered Learning Platform

Jan 2025 – Present

Awarded **SUTD BabyShark Grant** by SUTD Venture Innovation and Entrepreneurship. Developing an AI-driven LMS enabling students to find or create courses tailored to learning preferences while assisting teachers in streamlining courses efficiently.

TaskSnipe — Team Task Management Platform

Jan 2025 – Present

Built a **Next.js** web app for team task tracking with authentication via **Clerk**. Uses **PostgreSQL** for database management and **Vercel** for continuous deployment. Designed a **real-time dashboard** to visualize task progress.

LepakLah! — AI Senior-Centric Mobile App

Jun 2024 – Sept 2024

3rd Place, Dell InnovateFest 2024. Built a **Flutter-based** app to help seniors access activity center slots, addressing inefficiencies in the current system. Developed a Buddy Matching Algorithm for personalized connections. Deployed on **RedHat OpenShift, Docker, Kubernetes**.

Whiskers — Interactive Robo-Cat

Jan 2024 – Apr 2024

Engineered a chatbot using **OpenAI GPT + Whisper** for speech-to-text conversation. Integrated **Raspberry Pi 4** for robotic sensory responses.

Leadership & Extracurriculars

House Guardian Senator (EXCO)

2024 – Present

Served on a **6-member** executive committee responsible for leading and coordinating activities for a **50-member organisation**. Took care of the welfare of **1100+ residents** in hostel, and represented the entire student body in forums with the school's higher management on topics related to Housing.

Vice Chairperson (Junior College)

2021 – 2022

Coordinated service-learning projects and enhanced classroom spirit. Awarded **Class Service Award** for outstanding leadership contributions.

Technical Skills

Languages: Python, Java, JavaScript, Typescript, HTML, CSS

Frameworks: React, Flask, Django, Next.js, Clerk

Data Visualization: Matplotlib, Pandas, Numpy, ScikitLearn

Design: Figma, Adobe Illustrator, Adobe Photoshop, Adobe Premiere Pro, Canva

Soft Skills: Leadership, Critical Thinking, Adaptability, Project Management, Public Speaking, Problem Solving