Ong Shi Hui, Magenta

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EDUCATION

Singapore University of Technology and Design (SUTD) 2023 – 2027

B.Eng. in Computer Science and Design with *Software Engineering Focus*

WORK EXPERIENCE

GenEd | CoFounder, Software Engineer Mar 2025 – Present

- Developing an AI-powered learning platform integrated with Generative AI to support personalized course creation and discovery.

- Collaborated with the **Malaysian government** to build a mentor chatbot for students using large language models.

- Awarded the **S$6,000 Baby Shark Fund** by SUTD Venture Innovation and Entrepreneurship.

Steamunity | Design Mentor Nov 2024 – Mar 2025

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

Private Tutor | Physics, Chemistry, Math, Programming Aug 2023 – Mar 2025

- Students achieved 100% A-grades in H2 Physics/Math.

- Improved student performance by an average of 6.5 grades in O-Level Physics.

- Simplified programming concepts through hands-on projects, adapting to individual learning needs.

PROJECTS

TaskSnipe — Real-time Team Task Management Platform Jan 2025 – Present

- Built a **Next.js** web app with real-time dashboard visualizing task progress.

- Integrated authentication via **Clerk**, database managed with **PostgreSQL**, and deployment on **Vercel**.

LepakLah! — AI Senior-Centric Mobile App Jun 2024 – Sept 2024

- Developed a **Flutter**-based app with a Buddy Matching Algorithm for personalized connections, to improve accessibility to activity centers for seniors.

- Deployed on **RedHat OpenShift, Docker, Kubernetes**.

- Won **3rd Place** at Dell InnovateFest 2024.

Whiskers — Interactive Robo-Cat Jan 2024 – Apr 2024

- Engineered a chatbot using **OpenAI GPT + Whisper** for speech-to-text conversations.

- Integrated **Raspberry Pi 4** for robotic sensory responses.

LEADERSHIP & EXTRACURRICULARS

House Guardian Senator (EXCO) Sept 2024 – Present

- Led a **6-member** executive committee responsible for activities in a **50-member** organization.

- Oversaw welfare for **1100+ residents** and represented the student body in forums with school leadership on housing matters.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, HTML, CSS
Frameworks: React, Flask, Django, Next.js, Clerk
Data Visualization: Matplotlib, Pandas, Numpy, Scikit-Learn
Design: Figma, Adobe Illustrator, Adobe Photoshop, Adobe Premiere Pro, Canva
Soft Skills: Leadership, Critical Thinking, Adaptability, Project Management, Public Speaking, Problem Solving