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*

Experience

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.

L.E. Cafe Confectionery and Pastry   *Dec 2022 – Aug 2023*

- Automated email queries, optimizing logistics across 3 stores and reducing order processing time by 20%.
- Resolved 95% of inquiries efficiently, improving customer satisfaction.

Projects

GenEd — AI-Powered Learning Platform   *Jan 2025 – Present*

- Developing an AI-driven LMS enabling students to find or create courses tailored to learning preferences.
- Awarded **$6,000** SUTD BabyShark Grant by SUTD Venture Innovation and Entrepreneurship.

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 – Sep 2024*

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