

GOH JET WEI

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EDUCATION

Singapore University of Technology and Design

2023 - 2027

- Bachelor of Engineering (Computer Science and Design), SUTD Honours And Research Programme (SHARP)
- SUTD Global Merit Scholarship

Temasek Junior College

2019 - 2020

- 'A' Level Rank Points: 86.25 (PCME: H2 Physics, H2 Chemistry, H2 Mathematics, H1 Economics)
- 4 Distinctions (in all Sciences and Mathematics)

WORK EXPERIENCE

Singapore University of Technology and Design

May 2024 – Present

Undergraduate Researcher

- Co-authored the accepted paper '**Towards Adversarially Robust Human-in-the-Loop Learning for HVAC Systems**' at the Artificial Intelligence for Wireless Communications and Networking (AI4WCN) Workshop in 2024, held by the **Association for the Advancement of Artificial Intelligence (AAAI)**. [\[Paper Link\]](#)
- Invited to present at the AAAI-25 Conference at Philadelphia, USA.
- Conducted research under Dr Marie Siew and assisted in the development of a novel network-enabled crowd sourced reinforcement learning algorithm titled '**RARL HIL**'. Conducted literature review and experimented with the novel algorithm in a human-in-the-loop (HIL) HVAC simulation.

ACADEMIC PROJECTS

Undergraduate Research Opportunities Programme

Telegram Chatbot Teaching Assistant

May 2024 – Dec 2024

- Developed a Telegram Chatbot connected to a Streamlit website that gives personalized feedback on schoolwork based on school notes using Retrieval Augmented Generation and prompt engineering.
- Built and tested using Chatbase LLMs, Mistral LLMs, Snowflake, Telegram Bot API, Streamlit, Firebase, Figma and Vercel. [\[Certificate\]](#) [\[GitHub\]](#)

Design, Build and Test a Low-cost MRI Console (Spectrometer)

Jan 2024 – Apr 2024

- Conducted literature review of the Open-source Console for Real-time Acquisition (OCRA) and Red Pitaya SBC hardware as part of the project to build a low-cost MRI console. [\[Certificate\]](#)

Hackathons

SUTD x Petra Christian University (Indonesia) FACT Immersion Trip Hackathon

Jan 2025

- Achieved 1st place. Developed a crop yield prediction and farming conditions recommendation machine learning model along with a website to help local farm businesses. [\[Certificate\]](#) [\[GitHub\]](#)

NiCE Hack NTU 2024

Sep 2024

- Achieved 4th place in this hardware security hackathon to carry out Side-Channel Attacks to retrieve sensitive data from hardware implementations of cryptographic algorithms in the shortest time. [\[Certificate\]](#)

School Projects

Project Vroom

Jan 2025 – Apr 2025

- Achieved 'Outstanding Project Exhibit' during a SUTD projects showcase. Developed an android application to help Singaporean students find private driving instructors using various Data Structures and Algorithms including Priority Queues, Graphs, Dijkstra's algorithm and Java, OpenAI API and Firebase. [\[Certificate\]](#) [\[GitHub\]](#)

SUTD Student Government (ROOT) Website

Apr 2024 – Dec 2024

- Contributed to the development of the SUTD Student Government website, particularly the FAQ forum and Hotlines pages using React and Git.

Karaoke Event Song Queue Display and Registration Websites

Sep 2023 – Dec 2023

- Developed a song queue display and a singer registration website to facilitate a school-wide karaoke event. Built using Streamlit and Firebase. [\[GitHub\]](#)

SKILLS

Languages/Libraries

Python (Stable Baselines, OpenAI Gym, Scikit-learn, Streamlit, NumPy, Pandas, Matplotlib), Java, SQL (MySQL), JavaScript (React), C# (Unity), HTML, CSS

Framework/Technologies

Arduino, Firebase, Figma, Canva, Git