



TAN ZU SENG

Computer Science(Artificial Intelligence)
Graduate

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Portfolio

<https://github.com/zseng0912>

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About Me

I am a Computer Science graduate specializing in Artificial Intelligence with hands-on experience from internships, academic work, and personal projects. I have strong skills in software development, machine learning, and building end-to-end systems — from data processing and model training to deployment. Passionate about applying AI to real-world solutions, I am seeking an opportunity to grow as a developer, contribute to meaningful projects, and add value to a dynamic and innovative team.

Skills

- Python
- Computer Vision
- Machine Learning
- Deep Learning
- Pytorch
- MySQL
- R Programming
- Tableau
- RapidMiner
- JAVA
- C++
- Project Management Skill

Languages

English

Chinese

Malay

Experience

AI Drowning Detection System with Alarm**Aug – Oct 2025****Degree Final Year Project (APU)**

- Developed an AI-powered drowning detection system using deep learning and computer vision to detect and track swimmers in real time from above-water and underwater camera footage.
- Implemented underwater image enhancement using the FUnIE-GAN model to improve visibility and feature clarity for more reliable detection.
- Built an end-to-end system, including dataset preparation, YOLO model training, evaluation, and an alert mechanism to support early intervention and enhance water safety monitoring.

AI Robotics & STEM Intern**Sept – Dec 2024****Sciencetech Education Sdn Bhd**

- Programmed and optimized robots for tasks involving navigation, object detection, and problem-solving workflows by integrating sensors, movement control, and autonomous behaviors.
- Conducted STEM workshops and hands-on learning sessions focused on robotics, AI fundamentals, and automation concepts.
- Contributed to R&D for WRO and NRC robotics competitions, including testing, refining algorithms, and enhancing robot capabilities.

Programmer Intern**Aug – Oct 2023****Enlliance Management Sdn Bhd**

- Performed software testing, data management, and website maintenance while supporting CRM and POS system operations.
- Developed utility applications using Django and ReactJS to improve workflow efficiency and user experience.
- Contributed to feature enhancements, troubleshooting, and overall system reliability across web and internal platforms.

Education

Bachelor's Degree of Computer Science in AI**2023– 2025****Asia Pacific University of Technology and Innovation****Grade: 3.73****Diploma in ICT specialism in Software Engineering****2021– 2023****Asia Pacific University of Technology and Innovation****Grade: 3.85**