TAN YU HOE

AI Engineer / Data Scientist / Tech Evangelist

Singapore

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WORK EXPERIENCE

GovTech Singapore Singapore

AI Engineer Intern

Apr 2022 - Jun 2023

- Main engineer for photo relevance study in municipal feedback cases for MSO (Municipal Services Office). Proposed and developed an Image Relevance model using zero-shot image classification and embedding similarity methods. Achieved 97% accuracy without model training.
- Evaluated the performance of zero-shot visual-language models (CLIP and OWL-ViT) as general-purpose computer vision capabilities, for visual recognition use cases with limited labelled data.
- Implemented interactive web interfaces and backend APIs for zero-shot object detection, using Gradio, FastAPI, PyTorch, Docker, and HuggingFace transformer SDK.

EDUCATION

National University of Singapore

Singapore

Bachelor in Bachelor of Science, Business Analytics

Aug 2025 — May 2029

Singapore Polytechnic

Singapore

Diploma in Applied AI and Analytics

Apr 2020 - May 2023

• Honors: 3.8 / 4.0 GPA

- Courses: Staistics, Python for Data Analyitcs, AI & Machine Learning, Deep Learning
- CCA Grade: Gold with Honours
- **Distinctions**: ST0503 Back-End Web Development, ST1511 AI and Machine Leanring, ST1504 Deep Learning, ST3004 Infocomm Professional Seminar

LEADERSHIP AND ACTIVITIES

SP Artificial Intelligence Student Chapter

Singapore

Operations Head

Dec 2020 - Mar 2022

- Led a project team that developed a headline-based fake news detection application for showcase in Singapore Polytechnic's Open House and Engineering Show 2022
- Orchestrated a Kaggle competition on a curated dataset with real-world applications, attracting 70+ participants and fostering skill development in machine learning and data analysis techniques
- Curated teaching materials and taught concepts on Data Science workflows and Machine Learning concepts for two data-science-related workshops

PROJECTS

Meals with Wheels

Volunteer Lead

Aug 2022 - 0ct 2022

- Liaising between Singapore Polytechnic and TOUCH Community Services
- Developing and implementing logistical plans for meal delivery routes
- Prioritizing the safety of volunteers and elderly recipients, strictly adhering to COVID-19 (Temporary Measures) Regulations 2022

HONORS AND AWARDS

NUS LifeHack 2023 - First Place + sgID Award

Singapore

Issued by NUS Computing Club

Jun 2023

• Developed AquaWise, an AI-powered Sustainable Shopping Companion focused on promoting mindful consumption practices among consumers by integrating with popular e-commerce platforms, such as Shopee.

WPH Digital Hackathon 2022 - Second Place Award

Singapore

Issued by WPH Digital

Apr 2023

• developing an innovative solution to streamline CV screening, addressing the inefficiencies in identifying top talent. Collaborated with a team of tech enthusiasts to create a transformative tool that simplifies the hiring process, showcasing problemsolving skills and a commitment to reshaping the future of the job market.

LICENSES AND CERTIFICATIONS

Google Data Analytics

ID: 5D46PZTLVV9Q

Issued by Cousera

Apr 2023

Jan 2023

Google IT Automation with Python

ID: 878DAB3LU5FY

Issued by Coursera

ID: l-emxFVgQeCHCjNv8HtyXg

NVIDIA - Fundamentals of Deep Learning Issued by NVIDIA

Feb 2022

AI FOR INDUSTRY® - Foundations in AI

ID: 46333377 Feb 2022

Issued by AI Singapore

Microsoft Certified: Azure AI Fundamentals

Issued by *Microsoft*

ID: 9c58eb07-5936-448e-bbe0-2cf45b97d610 Jun 2021

SKILLS, LANGUAGES, INTERESTS

• Languages: English (Native Speaker), Chinese (Native Speaker)

• **Programming**: Python, SQL, Javascript

• Tools: Git, Docker, Visual Studio Code, Ubuntu

• BI & Data Analytics: Tableau, Jupyter Notebook, Numpy, Pandas, Plotly, Statistics

• Machine Learning: Scikit-Learn, TensorFlow, PyTorch