

# TAN YU HOE

AI Engineer Intern

Singapore

yuhoetan@gmail.com ♦ www.linkedin.com/in/yu-hoe-tan/ ♦ github.com/tyh71

## WORK EXPERIENCE

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### 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

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### National University of Singapore

Singapore

Bachelor in Science, Business Analytics

Aug 2025 – May 2029

### College of Alice and Peter Tan

Singapore

University Town College Programme in NUS

Aug 2025 – May 2027

### Singapore Polytechnic

Singapore

Diploma in Applied AI and Analytics

Apr 2020 – May 2023

- **Honors:** 3.8 / 4.0 GPA
- **Courses:** Statistics, Python for Data Analytics, AI & Machine Learning, Deep Learning
- **CCA Grade:** Gold with Honours
- **Distinctions:** ST0503 Back-End Web Development, ST1511 AI and Machine Learning, ST1504 Deep Learning, ST3004 Infocomm Professional Seminar

## LEADERSHIP AND ACTIVITIES

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### 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

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### Meals with Wheels

Volunteer Lead

Aug 2022 – Oct 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

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### 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 problem-solving skills and a commitment to reshaping the future of the job market.

### LICENSES AND CERTIFICATIONS

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#### Google Data Analytics

ID: 5D46PZTLVV9Q

Issued by *Cousera*

Apr 2023

#### Google IT Automation with Python

ID: 878DAB3LU5FY

Issued by *Coursera*

Jan 2023

#### NVIDIA - Fundamentals of Deep Learning

ID: 1-emxFVgQeCHCjNv8HtyXg

Issued by *NVIDIA*

Feb 2022

#### AI FOR INDUSTRY® - Foundations in AI

ID: 46333377

Issued by *AI Singapore*

Feb 2022

#### Microsoft Certified: Azure AI Fundamentals

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

Issued by *Microsoft*

Jun 2021

### SKILLS, LANGUAGES, INTERESTS

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- **Languages:** English (Native Speaker), Chinese (Native Speaker)
- **Programming:** Python, SQL, Javascript
- **Tools:** Git, GitHub, Docker, Visual Studio Code, Ubuntu/Linux
- **BI & Data Analytics:** Tableau, Jupyter Notebook, Numpy, Pandas, Matplotlib/Seaborn, Plotly, Statistics
- **Machine Learning:** Scikit-Learn, TensorFlow, PyTorch, HuggingFace, MMDetection