

# TAN YU HOE

AI Engineer / Data Scientist / Tech Evangelist

Singapore

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## 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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### Singapore Polytechnic

Singapore

Diploma in Applied AI and Analytics

Aug 2017 – May 2023

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

## LEADERSHIP AND ACTIVITIES

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### SP Artificial Intelligence Student Chapter

Singapore

Operations Head

Dec 2020 – Mar 2022

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## LICENSES AND CERTIFICATIONS

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### Google Data Analytics

ID: 5D46PZTLVV9Q

Issued by Couseira

Apr 2023

## SKILLS, LANGUAGES, INTERESTS

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- **Languages:** English (Native speaker), German (Native speaker), Japanese (Basic proficiency)
- **Soft Skills:** Public Speaking, Debating, Communication, Critical Thinking, Leadership, Persuasive Writing, Technical Writing
- **Programming:** Python, SQL, PostgreSQL, MATLAB/Octave, HTML, CSS, Javascript, Typst, LaTeX
- **Tools:** Microsoft Word, Git, Docker, Visual Studio Code, Canva
- **Web Development:** React, Next.js, million.js, Svelte & Sveltekit, Tailwind CSS, Node.js, Deno, FastAPI, Flask
- **BI & Data Analytics:** Microsoft Excel, Microsoft Power BI, Jupyter Notebook, Numpy, Pandas, Plotly, Altair
- **Interests:** Video Games, Anime, Reading Non-fiction, Classical and Original Soundtrack Music