

NG, Wai Leuk | William

Junior Engineer

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Summary

As an Electronic and Information Engineering graduate, has hands-on skills in developing deep learning models for image generation using PyTorch, including GAN, DDPM, and LLM methods. Employs AI solutions in different projects and seeks to research opportunities in Deep Learning field.

Education

Bachelor of Engineering: Electronic and Information Engineering

The Hong Kong Polytechnic University, Hong Kong

2021 – 2025

- **Exchange:** Electrical & Computer Engineering, University of Florida, Gainesville, FL | Jan – May 2023

Work Experience

Project Officer, School of Computing and Information Sciences (Part-time)

Saint Francis University, Hong Kong

July 2024 – July 2025

- Developed and implemented advanced deep learning models, including Generative Adversarial Networks (GANs) and Diffusion Probabilistic Models (DPMs), for high-quality image generation using PyTorch.
- Enhanced super-resolution model performance: PSNR \uparrow 19.01 \rightarrow 22.3, SSIM \uparrow 0.63 \rightarrow 0.70
- Collaborated with interdisciplinary teams to deploy AI-driven solutions, leveraging data analytics to optimize project performance.

Projects

Image/Video Generation in Deep Learning

The Hong Kong Polytechnic University | 07/2024-05/2025 | Supervised by Prof. W.C. Siu

- Employ GAN and DDPM methods to generate high-quality images from random input noise.
- Improve super-resolution to process low-resolution images and produce results that look realistic.
- Use pre-trained StyleGAN2 models to generate Asian face datasets with transfer learning.

Skills

Technical Skills

- **Programming:** Python, PyTorch, MATLAB, C++, SQL, Git, Jupyter Notebook, Linux
- **Machine Learning & Data Analysis:** Deep learning, CNNs, GANs, diffusion models, model training & evaluation, computer vision, data analytics for system optimization, ML and LLM deployment

Language

- English, Chinese (Mandarin, Cantonese)

Activities and Societies

- **Service-learning Trip, Cambodia (2025):** Volunteered in Siem Reap to support local schools, developing cross-cultural communication and teamwork skills.
- **Reaching Out Award Scholarship (2023):** Funded international exchange at UF, recognizing academic excellence.
- **Wong Tit-shing Student Exchange Scholarship (2023):** Awarded for academic performance, enabling UF exchange.