BARRY TRAN

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EDUCATION

University of Adelaide

Adelaide, SA

Bachelor of Computer Science (Advanced), GPA: 7.0/7.0

July 2023 – June 2026 (Expected)

Relevant Coursework Algorithm Design & Data Structures, Artificial Intelligence, Computer Vision, Statistical Modeling & Inference, Optimization, Web & Database Computing, Computer Systems,...

EXPERIENCE

Lyra Technologies

Software Engineer Intern

Mar. 2025 - Present

Canva

Machine Learning Engineer Intern

Dec. 2024 - Feb. 2025

- Fine-tuned open-source Large Language Models like Llama and Mistral for Design Relayout, improving spatial reasoning and achieving a 20% improvement in layout quality, evaluated through manual review.
- Researched advanced methods like Vision-Language Models, Graphist, and Diffusion to enhance Design Relayout with fine-tuned LLMs and conversational reasoning techniques.

Australian Institute for Machine Learning

Undergraduate Research Student | BBVisual Lab - Supervisor: Prof. Minh Hoai Nguyen

Jul. 2024 - Present

• Research Topic: "Open-world Class-Agnostic Visual Counting"

Summer Research Intern - Supervisor: Dr. Antonios Perperidis

Nov. 2023 - Feb. 2024

- Research Topic: "Exploring 4D X-ray Velocimetry (XV) Imaging and Machine Learning for the Detection and Monitoring of Cystic Fibrosis Disease in clinical Data."
- Developed an ensemble model with feature extraction that achieved an impressive 89% accuracy in its results.

MIT Media Lab

Research Intern | MIT Adelaide Living Lab - Supervisor: Tobin South

Feb. 2024 - Oct. 2024

- Research Topic: "Benchmarking Backdoor Attack fine-tuning methods in Diffusion models"
- Researched various aspects of AI backdoor attacks, and its application in sub-fields like advertising, security, etc.

PROJECTS

AI Product Photoshoot Wizard | GenAI, StableDiffusion, Streamlit, Docker, Python

- Created AI product photography tool using Google Gemini and DreamBooth fine-tuned Stable Diffusion
- Built a Streamlit interface and used Docker, leveraging CI/CD with GitHub Actions for seamless deployment

COMMUNITY INVOLVEMENT

Adelaide University Mathematics Society

 $President \leftarrow Second-year Representative$

Oct. 2023 - Mar. 2025

- Led the society's growth to over 300 members by organizing key events such as Pi Day, AUMS Weekly Puzzle, Maths Olympiads, and Pub Crawls, fostering both academic and social engagement.
- Developed and launched the society's website, improving outreach and streamlining event coordination, while managing collaborations with staff, sponsors, and other student organizations.

HONORS AND AWARDS

Third Prize | *Vietnamese Mathematical Olympiad*

Mar. 2023

Meritorious Prize | International Mathematical Modeling Challenge

May 2022

TECHNICAL SKILLS

Languages: Python, C++, JavaScript, HTML/CSS, LATEX, Assembly, Dart, R, MATLAB

Frameworks: PyTorch, Django, Flask, Streamlit, Gradio, FastAPI, Scikit-learn

Developer Tools: Git, Docker, Google Colab, Google Cloud Platform, Jupyter Notebook, Linux, AWS