

# BARRY TRAN

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## EDUCATION

### University of Adelaide

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

Adelaide, SA

July 2023 – June 2026 (Expected)

## EXPERIENCE

### Canva

Incoming Machine Learning Engineer Intern

Dec. 2024 – Feb. 2025 (Expected)

### Australian Institute for Machine Learning

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

Jul. 2024 – Present

- Research Topic: "Fine-Grained Object Counting and Differentiation in Visual Data."
- Created a novel dataset consisting of 200,000 images of more than 50 categories for fine-grained 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."
- The developed model demonstrated 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.

### Budi

Full-stack Developer

Oct. 2023 – Feb. 2024

- Developed a fully responsive and high-performance landing page utilizing AstroJS, React, and Tailwind, completing the project within 6 days by employing efficient development strategies and best practices.
- Expanded the user database by 20%, playing a key role in enhancing the startup's online visibility and contributing to its long-term growth and success.

## PROJECTS

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

- 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 ← Second-year Representative

Oct. 2023 – Present

- 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