Bach Tran

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Education

University of Adelaide Adelaide, SA
Bachelor of Computer Science (Advanced), GPA: 6.8/7.0 *July 2023 – Jun. 2026 (Expected)*
Relevant Coursework *Data Structures & Algorithms, Artificial Intelligence, Computer Vision, Statistical Modeling & Inference, Optimization, Web & Database Computing, Operating Systems,...*

Experience

Lyra Technologies
Forward Deployed Engineer *Mar. 2025 – Present*
- Working with US startups to build and ship production-ready software across web, API, and infrastructure layers.

ReadMe
AI Engineer *Aug. 2025 – Present*
- Building the AI Agent Chat that helps developers write and improve documentation using LLMs.

Chapter One
AI Engineer *May 2025 – Aug. 2025*
- Built browser AI agents that automate tasks on shopping and social media platforms, reducing human workload.

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 Student Researcher | BBVisual Lab - Supervisor: Prof. Minh Hoai Nguyen *Aug. 2024 – Jul. 2025*
- Research Topic: *"Learning to Count using Negation"*
- Worked on building better visual counting model using negation, or what not to count.

Summer Research Intern - Supervisor: Dr. Antonios Perperidis *Nov. 2023 – Feb. 2024*
- Research Topic: *"4D X-ray Velocimetry and Machine Learning for Detecting and Monitoring Cystic Fibrosis"*
- 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.

Community Involvement

Adelaide University Mathematics Society
President ← 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.

Honors and Awards

Third Prize | *Vietnamese Mathematical Olympiad*
Meritorious Prize | *International Mathematical Modeling Challenge*

Technical Skills

Languages: Python, TypeScript, C++, JavaScript, HTML/CSS, LaTeX, Dart, R, MATLAB
Frameworks: PyTorch, n8n, FastAPI, Next.js, Flask, Streamlit, Unsloth, BrowserUse, Langchain
Developer Tools: Git, Docker, Google Colab, Google Cloud Platform, Jupyter Notebook, Linux, AWS