

GIA KHANH NGUYEN

0402-348-294 khanhgn.vercel.app [linkedin](#)

Education

The University of Adelaide

Bachelor of Computer Science (Advanced)

Jan 2023 – Dec 2025

7.0/7.0 GPA - 94.3% WAM

Experience

Insightfactory.ai

AI Research Scientist

Jul 2024 – Present

Adelaide, SA

- Building autonomous AI systems to shape the future of consulting by replacing traditional data engineering and data science workflows.
- Designing multi-agent architectures that automate data ingestion, transformation, analysis, and decision-making end-to-end.

The Australian Institute of Machine Learning

Jan 2025 – Present

Research Fellow

Adelaide, SA

- Developing model architectures and training objectives to improve instruction following, saliency detection, and grounding of linguistic concepts in visual inputs.
- Constructing large-scale datasets and evaluation benchmarks to diagnose failure modes in fine-grained reasoning and visual importance modeling.

University of California, Berkeley

Jul 2024 – Nov 2024

Research Fellow

Berkeley, CA

- Developed and evaluated machine learning models for carbon flux event detection (published at Nature Ecology).

Massachusetts Institute of Technology

Mar 2024 – Jul 2024

Research Intern

Adelaide, SA

- Enhanced the robustness of Stable Diffusion 3 by identifying and mitigating critical security vulnerabilities.

CREST

Nov 2023 – Feb 2024

Summer Research Student

Adelaide, SA

- Developed a novel framework leveraging LLMs, NLP, and RAG to automatically generate cyberattack metagraphs from CTIs, reducing human analysis time by 95%.

Maptek

Mar 2024 – Jun 2024

Machine Learning Engineer Intern

Glenside, SA

- Analyzed geological model performance and optimized neural networks for Jacobians extraction.
- Migrated models from TensorFlow to JAX, enabling parallel processing and boosting performance by 76%.

Budi

Oct 2023 – Jan 2024

Lead Software Engineer

Adelaide, SA

- Led a team of four in developing a logistics services marketplace platform.
- Built responsive landing pages, resulting in a 30% customer base growth.

Leadership / Extracurricular

President

Apr 2023 – Dec 2024

The Society of Quantitative Analysis and Data

The University of Adelaide

- Increased membership to become the second-largest CS club on campus within just 7 months of founding date.
- Effectively led and managed a 25-member committee, overseeing the dynamic operations of the thriving and influential club, the sole data society in South Australia.

Executive Committee

Oct 2023 – Dec 2024

Competitive Programming Club

The University of Adelaide

- Conceptualized and executed a high-impact hackathon event, drawing over 100 competitors.

Publications

Yifeng Huang, Nguyen, Gia Khanh, and Minh Hoai.

CountEx: Fine-Grained Counting via Exemplars and Exclusion.

Under review at the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR).

Nguyen, Gia Khanh, Yifeng Huang, and Minh Hoai (2025).

Can Current AI Models Count What We Mean, Not What They See? A Benchmark and Systematic Evaluation.

In Digital Image Computing: Techniques and Applications (DICTA).