KHANH NGUYEN

Second Year Computer Science (Advanced) student at the University of Adelaide

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Education

The University of Adelaide   **Jan 2023 – Dec 2025**
Bachelor of Computer Science (Advanced)   *7.0/7.0 GPA*

University High School   **Jan 2021 – Dec 2022**
Victorian Certificate of Education   *99.05 ATAR*

Experience

The Australian Institute of Machine Learning   **Jul 2024 - Present**
Student researcher | BBVisual Lab   *Adelaide, SA*
- Project: Machine Learning for fine-grained class-agnostic visual counting

Insightfactory.AI   **Jul 2024 - Present**
Undergraduate Data Scientist   *Adelaide, SA*
- Developing and enhancing Master Data Management (MDM) software.

Massachusetts Institute of Technology Living Lab   **Mar 2024 - Present**
Research Intern   *Boston, MA*
- Evaluated the effectiveness of different backdoor attacks on various diffusion models.
- Identified Vulnerabilities and Mitigation Strategies in State-of-the-Art Generative Models, Including Stable Diffusion 3.

Maptek Pty Limited   **Mar 2024 - Jun 2024**
Machine Learning Engineer Intern   *Glenside, SA*
- Analysed the performance of geological models and developed strategies to enhance neural network efficiency especially for Jacobians extraction applications.
- Migrated the TensorFlow model to a JAX, enabling parallel training and inference and enhancing performance by 76%.

University of Adelaide   **Nov 2023 – Feb 2024**
Summer Research Student | Supervised by Prof. Hung Nguyen   *Adelaide, SA*
- Pioneered the conceptualisation and development of an innovative framework, harnessing the power of LLMs, NLP and RAG and to automatically generate metagraphs for cyber attacks retrieved from CTIs.

Budi   **Oct 2023 – Jan 2024**
Front-End Lead   *Adelaide, SA*
- Supervised a team of 4 to redesign key platform components, resulting in a 30% increase in customer base.

Leadership / Extracurricular

Amazon ML Summer School   **Jan 2024 – Mar 2024**
Amazon   *APAC*
- Selected as 1 of 100 students to join Amazon ML training program.

President   **Apr 2023 – Present**
The Society of Quantitative Analysis and Data   *The University of Adelaide*
- Trailblazed the swift expansion of the club, propelling its membership to over 400 members within just 7 months of founding date, becoming the second-largest CS club on campus, surpassing many well-established counterparts.

Founder and President   **May 2021 – December 2022**
Programming Club   *The University High School*
- Founded and established the Coding Club in high school, drawing in a significant 130 students to actively participate.
- Initiated a positive domino effect within the school, leading to the establishment of various STEM-focused sub-branches, including robotics, game development and other computer science fields, under my guidance.

Executive Committee   **Oct 2023 – Present**
Competitive Programming Club   *The University of Adelaide*
- Conceptualized and executed a high-impact hackathon event, drawing over 100 competitors.

Technical Skills

Languages: C++, Python, Matlab, HTML/CSS, JavaScript, R
Technologies/Frameworks: FLAX/JAX, PyTorch, HuggingFace, ReactJS, MongoDB, GitHub