

Brian Luu

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EDUCATION

Deakin University

Bachelor of Computer Science

Burwood, VIC, Australia

March 19 - Jul 23

- Specialization in Artificial Intelligence and Data Science.
- WAM: 82/100.
- Recipient of Deakin's International Student Scholarship.

EXPERIENCE

• Buildmat Trade

Dandenong South, VIC, Australia

Data Engineer

Jul 23 - now

- Designed and refined a data pipeline to process semi-structured data, enabling the insightful visualization reports that enhance business decision-making.
- Developed specialized data scrapers using Python, resulting in a 70% expansion of data resources and improvement in field accuracy.
- Developed and managed a scalable, cloud-hosted PostgreSQL database, optimizing real-time data accessibility and processing efficiency.
- Developed API for database services, enabling cross-functional teams to efficiently manage and utilize data.
- Technologies implemented: Amazon RDS, SQLAlchemy ORM, FastAPI, Python, PowerBI

• Applied Artificial Intelligence Institute (A2I2)

Burwood, VIC, Australia

AI Engineer Intern

March 23 - now

- Developed a semantic search engine for expert identification, achieving a 15% accuracy improvement through a hybrid approach integrating Large Language Models, Graph-based Models, and Clustering Algorithms with custom datasets.
- Launched a beta web application that allows user to identify and generate relevant expert connections from specific domains, long-text queries (abstract/section) and expert profiles.
- Models and algorithms implemented: Sentence-BERT, UMAP, HDBSCAN, PageRank.
- Framework and technologies implemented: TensorFlow, FastAPI, Neo4J, TryChroma, NetworkX.

• Department of Education and Training

Melbourne, VIC, Australia

Specialist Technician

March 23 - now

- Configured, managed and maintained curriculum and admin networks, servers and educational smart devices.
- Implemented automation procedures for several management tasks, reducing administrative workload by 25%.
- Managed the Windows Server 2016 environment, MDM services, and Microsoft Intune Services, ensuring 99.9% uptime and secure network operations

• Vega Corporation,

Hanoi, Vietnam

Software Engineer Intern

June 18 - December 18

- Contributed to the development and maintenance of features on a music streaming web application.
- Partnered with the testing team to validate product features, leading to a 20% reduction in bugs and errors.
- Technologies implemented: React, Node.Js, MongoDB.

PROJECTS

- Breaking Captcha: Developed a web tool employing Computer Vision models to efficiently solve different CAPTCHA types.
- RecycleNet: Developed a Streamlit application leveraging a fine-tuned Vision Transformer model for classifying recyclables according to Victoria's regulations, with 92% accuracy on TrashNet dataset.

SKILLS

- Languages: Python, Javascript, C/C++
- Frameworks: TensorFlow, PyTorch, ORM, FastAPI, Flask, React.Js, Express.Js
- Tools: Git, AWS, PostgreSQL, Docker, PowerBI, Postman