

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 generation of insightful visualization reports crucial for informed business decision-making.
- Created specialized data scrapers utilizing Python libraries, expanding the data resources by 70% and enabling timely insights for business analysis.
- Developed and managed a cloud-hosted PostgreSQL database using Python ORM and Amazon RDS, ensuring scalability real-time data accessibility.
- 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, improving result accuracy by 15% through a hybrid approach integrating Large Language Models, Graph-based Models, and Clustering Algorithms with custom datasets.
- Launched a beta web application that identifies experts and publications based on user queries, enables expert network generation from specified 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.
- Installed and managed hardware and software, introducing automation procedures that reduced administrative workload by over 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:** A web tool enabling users to solve diverse CAPTCHA types with Computer Vision models, showcasing a practical application of AI in bypassing security challenges.
- **RecycleNet:** A Streamlit application that employs a fine-tuned Vision Transformer model to classify recyclables according to Victoria's regulations, achieving 92% accuracy on the 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