George Yu

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EDUCATION

2024 — **University of Adelaide**
Master of Computing and Innovation
GPA: 6.3 / 7.0
Global Citizens Scholarship

2022 — **University of Melbourne**
Bachelor of Science, Major in Data Science
WAM: 82
First Class Honours H1

TECHNICAL SKILLS

- Programming Language: SQL, Python, JavaScript, C++, Java
- Skills: Software Engineering, Web Development, Machine Learning, Data Analysis

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EMPLOYMENT

2021 - Present — **Private Database Tutor**
CPU Education

- Implemented physical database models using MySQL and optimized complex analytical queries
- Applied SQL to solve complex analytical queries efficiently
- Developed a strong understanding of data warehouse, distributed databases and NoSQL
- Guided 50+ students per semester in database design, SQL, and data warehousing, with 30% achieving H1 grades

2023 - 2023 — **Machine Learning Engineer Intern**
Think Digital Studios

- Built and deployed a computer vision pipeline on Microsoft Azure for cattle disease classification
- Achieved 90%+ model accuracy and improved robustness against false negatives
- Skills Gained: Microsoft Azure VM, Pytorch Lightning and Hydra, Deep Learning

2023 - 2023 — **Research Assistant**
University of Adelaide

- Developed a machine learning model to enhance chemical component measurement, achieving a Mean Absolute Error (MAE) of 2.35, meeting baseline requirements

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RELEVANT PROJECT WORK

2024 - 2024 — University of Adelaide
Service Booking Web Application

- Created a MySQL database with schema design (ER Model), CRUD operations, and data integration to handle service data efficiently
- Designed a responsive React-based interface with interactive elements and real-time updates, enhancing user engagement
- Built RESTful APIs to ensure robust server-side logic and seamless front-end-to-database communication
- Implemented security mechanisms to mitigate vulnerabilities such as improper authentication and session fixation
- Tech Stack: MySQL, React, Nodejs and Javascript

2024 - 2024 — Maptek, Adelaide
Communication Voice Codec

- Developed a speech compression algorithm leveraging neural network which efficiently reduced .wav file sizes by over 90% while maintaining high fidelity
- Deployed algorithm using Python Flask for user interaction

PROFESSIONAL CERTIFICATIONS

- AWS Certified Cloud Practitioner