YUEQING XUAN

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TECHNICAL SKILLS

Programming Languages:	Python (PyTorch, Keras, OpenCV, Scikit-learn, NumPy, Pandas), Java, C, JavaScript, NetLogo
Database Management Systems:	Oracle Database
Business Intelligence Software:	SAP Lumira, SAS

EDUCATION

Master of Information Technology, University of Melbourne   **Feb 2020 – Now**

Specialized in Artificial Intelligence

- **WAM**: 84.29
- **Relevant Coursework**: Natural Language Processing, Statistical Machine Learning, Computer Vision, AI Planning for Autonomy, Computational Modelling, etc.
- **Achievements:** First Class Honours (H1) in 77% subjects. Second Class Honours Division B (H2B) in 33% subjects.

Bachelor of Commerce, UNSW Sydney   **Jul 2015 – Jul 2018**

Major in Accounting and Information Systems

- **WAM**: 74.5
- **Relevant Coursework**: Database Management and Big Data, Information System in Business, Business System Analysis, Programming for Business, etc.
- **Achievements:** High Distinction average in programming subjects, Distinction average in accounting subjects, Second in COMP1531 (Software Engineering Fundamentals)

ACADEMIC PROJECT

Research Project - Multi-modal Entity Linker, University of Melbourne   **Jul 2021 – Nov 2021**

- Proposed a multi-modal entity linker that identifies the target and/or receptacle objects within verbal commands through machine learning and performs visual-textual entity linking.
- Performed end-to-end evaluations on the voice-controlled robotic arm control framework.
- Supervised by Dr. Lea Frermann and Dr. Adi Tarigoppula.
- Achieved 91 (First Class Honours) in this research project.

Rumour Detection and Analysis on Twitter, University of Melbourne   **May 2021**

- Built a rumour classification model via BERT in PyTorch for detection of rumour tweets.
- Applied the classifier to analyse the characteristics of COVID-related rumours on Twitter.
- Ranked in the top 15% in the leaderboard.

Autonomous Player in Game Sequence, University of Melbourne   **May 2021**

- Implemented an autonomous agent based on reinforcement learning, which can play in the game Sequence.
- Ranked in the top 10% in the final competition.

COVID-19 Transmission Model, University of Melbourne   **Oct 2020**

- Created an agent-based model in NetLogo to investigate the role of asymptomatic individuals in spreading COVID-19.
- Designed experiments to explore the effectiveness of isolation for disease control.

Event Management System, UNSW   **May 2018**

- Developed an Event Management System in Python and HTML that features event creation and registration for UNSW staff and students.
- Achieved High Distinction in this project.

EMPLOYMENT

Casual Research Assistant   **Nov 2019**
The University of Melbourne, Melbourne

- Worked on the research project: Humanoid robotic arm control through verbal commands.
- Successfully integrated the Porcupine Wake word engine and IBM Watson speech recognition into the robotic arm control framework.
- Streamlined the entire pipeline that allows the control of the anthropomorphic robotic limb using verbal (natural language) commands to perform various reaching and grasping movements.

IT Support and Business Analyst Internship   **Mar 2019 – May 2019**
The Altius Group, Sydney

- Effectively managed, configured and troubleshoot a range of IT-related systems.
- Responsibly implemented and administrated database documentation, guidelines, policies and procedures.
- Performed application and hardware configuration deployment and troubleshooting.

GIS Data Processing Internship   **Nov 2016 – Feb 2017**
Shanghai Institute of Technical Physics of the Chinese Academy of Sciences, Shanghai

- Worked effectively in the Big Data team to analyse Geographic Information System (GIS) data by utilising the ContextCapture software.
- Designed and maintained database architecture, data structures, tables, dictionaries, and naming conventions to ensure the accuracy and completeness of all data master files.
- Performed the operational establishment and preventive maintenance of backups, recovery procedures, and enforced security and integrity controls.

PERSONAL ATTRIBUTES

- **Strong teamwork skills** – Worked smoothly and effectively as a team member through collaboration, effective communication, and providing assistance with a positive manner.
- **Problem-solving skills** – developing both creative and practical solutions to solve identified issues and discrepancies, and contribute to effective outcomes.
- **Time management skills** – Managing time effectively through prioritising and making judgments about what is urgent or important, and coordinating different tasks to meet deadlines.