ZHENGXING GU

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SKILLS

- Coding skills: C/C++, Python, PostgreSQL, Javascript, React, Git, Machine Learning, Deep Learning (Pytorch)
- Engineering skills: control system engineering
- Language: Mandarin (native), English (working proficiency)

EDUCATION

Master of Information Technology   September 2021 - December 2023
University of New South Wales, Sydney, Australia
- Weighted Average Mark: 87.1 / 100
- Key Courses: Artificial Intelligence, Machine Learning & Data Mining, Computer Vision, Neural Networks and Deep Learning, Web Front-End Programming, Data Structures & Algorithms

Bachelor of Engineering   September 2017 - June 2021
Nanjing University of Science and Technology, Nanjing, China
- Major in Automation
- Weighted Average Mark: 87.05 / 100
- Key Courses: Optimization Theory & Application, Process Computer Control System, Embedded Control System & Application

PROJECTS

COMP6080 Web Front-End Programming   April 2023
- Utilized React and Javascript to write frontend of an online quiz website similar to Kahoot!
- Worked with Restful API to implement all the functionalities.

COMP9444 Neural Networks and Deep Learning Group Project   June 2023 - August 2023
- Compared different machine learning and deep learning algorithms for Twitter Sentiment Analysis on a Kaggle dataset. Bi-LSTM with Attention after LSTM using concatenated word vectors achieves the highest accuracy of 97.5%.

COMP9517 Computer Vision   July 2023 - August 2023
- Built different models to solve an animal detecting and classification problem on Penguins vs Turtles Kaggle dataset.
- Faster R-CNN, YOLO, CNN and traditional machine learning algorithms with HOG were compared. YOLO achieved 100% accuracy and CNN achieved 83% accuracy.

COMP9415 Computer Graphics Group Project   October 2022 - December 2022
- Developed an educational game using Unreal Engine 5. The game focused on a simplified simulation of terraforming a planet into a habitable state. The player can plant trees, generate carbon dioxide, do mining and etc. to change the environment of a planet.By playing the game, players can learn the basic knowledge of Earth's environment.
- Ranked top 10 among all groups.

AWARDS AND CERTIFICATIONS

- Standard Mental Health First Aider   June 2023
- First Prize in the China Robot Skills Competition   December 2019
- Second Prize in the Third National College Student Military Mathematical Contest in Modelling (China)   June 2019
- "Three Good Students" of Nanjing University of Science and Technology   2018-2019
- First-class Scholarship of Academic Excellence (Nanjing University of Science and Technology)   2018-2019
- First Prize in China International Aircraft Design Challenge   August 2018
- First Prize in the 27th "Innovation Cup" (Nanjing University of Science and Technology)   May 2018
- New City Education Fund Scholarship (Nanjing University of Science and Technology)   November 2017

EXTRACURRICULAR

UNSW New College Village Tennis Club   September 2022 – December 2023
UNSW professional development program
- participated 3-day in-person workshop and completed a 10-hour virtual internship on Forage.

Unmanned Aerial Vehicle Association (Nanjing University of Science and Technology)   September 2017 - June 2019
- Attended China Aeromodelling Design Challenge competition (water rocket with glider). After the rocket carried the glider to the sky, the water rocket separated from the glider and opened a parachute. A pilot will control the glider remotely. I was in charge of the parachute system of the model rocket and I also participated in making gliders and model rockets.
- In the second year after joining the club, I was one of the mentors to teach new members.

Youth Volunteers Association (Nanjing University of Science and Technology)   September 2017 - June 2018
- Actively participated in various volunteer activities and was one of the people responsible for recording them.