ZIJIAN WANG

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Dalian University of Technology

Education

•Dalian University of Technology *Sep. 2021 - Jun. 2025*
Bachelor's Degree in Software Engineering GPA: 87.6/100.0

•Osaka University *Sep. 2024 - Feb. 2025*
FrontierLab Exchange Program Project Evaluation: A

Technical Skills

Languages: English (IELTS 7.0), Japanese (Fluent)
Programming Languages: Python, C/C++, Java, SQL
Development Tools: Cursor, Android Studio, Trae, Git, Jupyter, Mermaid, Canvas
Documentation: LaTeX, Markdown, Endnote

Research Experience

•Smartphone-Based Grading Assessment of Hand Tremor in Parkinson's Disease *Apr. 2024 - Jun. 2025*
Personal Project, supervised by Dr. Junxin Chen, Intelligent Systems Research Institute, DUT Dalian, China

- Captured hand tremors through the accelerometer and gyroscope inside a smartphone, and used various classifier based on ML for comparative evaluation, ultimately achieving the best grading accuracy over 90% through an Ensemble Voting model, and integrated the system into a user-friendly Android application
- Developed a multimodal Parkinson's data collection application integrating multiple indicators including tapping, voice, and gait posture

•Emotion-Aware Virtual Health Agent for Personalized Healthcare Support *Sept. 2024 - Feb. 2025*
Personal Project, supervised by Dr. Takato Horii, Osaka University Osaka, Japan

- Developed a virtual health assistant with user-friendly front-end, integrating local large models and online APIs, providing multimodal inputs, interruptible voice interaction, emotion-based feedback, and **showcased via a Frontierlab project poster at Osaka University**

•Multimodal Odometry Estimation *Aug. 2023 - Aug. 2024*
Group Member, supervised by Dr. Xinchen Ye, Multimodal Lab, DUT Dalian, China

- Developed an odometry estimation model based on DeepVIO with the addition of a LiDAR modal pipeline
- Introduced a decision network responsible for adaptive decision-making on inputs from the visual and LiDAR modalities to optimize the model's robustness and accuracy in harsh environments

•Multi-agent Reinforcement Learning Optimization *Jul. 2023 - Aug. 2023*
Group Leader, supervised by Dr. Pietro Lio, University of Cambridge Cambridge, UK

- Developed a multi-tier communication architecture, with high-level agents responsible for global optimization, and low-level agents for achieving local optima
- Created a predator-prey model based on OpenAI Gym environment, introduced MADDPG algorithm, and received an A-grade evaluation from the advisor

Projects Experience

•Personal Image Retrieval System Based on BLIP *Mar. 2024 - Jun. 2024*
Group Leader Dalian, China

- Developed a personal image retrieval system based on BLIP and introduced a confidence assessment system for it
- Responsible for backend coding work and reporting to the supervisor on project progress and outcomes at the final presentation

Extracurricular Experience

•President, Chinese Calligraphy Club, DUT *Sep. 2022 - Aug. 2023*

- Organized offline calligraphy gatherings, regularly conducted calligraphy teaching activities, and invited off-campus calligraphers to provide guidance
- Collaborated with art societies such as the Book Society and Hanfu Society to host large-scale cultural events showcasing traditional Chinese cultural rituals

•Volunteer, Student Assistance Program, DUT *Sep. 2021 - Feb. 2022*

- Established study groups to assist students with C programming, mathematics, and Japanese studies, accumulating over 60 hours of online and offline tutoring, resulting in an average score improvement of over 10 points for participants

Awards

•Excellent Student of the Year, DUT *2021-2022*
•Academic Scholarship, DUT *2021-2022*
•Cultural and Sports Scholarship, DUT *2021-2022*