

JIARUI QI

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EDUCATION

College of William and Mary

Williamsburg, VA

➤ Bachelor of Science in Computer Science

Aug 2021- May 2025

Relevant Courses: Data Structures, Algorithms, Principles of Program Language, Computer Organization, Finite Automata, Software Development, Data Mining, Intro to Machine Learning, Database Systems.

➤ Bachelor of Science in Mathematics

Aug 2021- May 2025

Relevant Courses: Abstract Algebra, Ops Resrch Deterministic Model, Intro Numerical Analysis, Probability, Ordinary Differential Equation, Quantum Computing, Mathematical Statistics, Statistical Data Analysis.

RESEARCH EXPERIENCE

College of William and Mary

Williamsburg, VA

Research Assistant

Dec 2023 - Dec 2024

- Joined Professor Huajie Shao's research group in winter 2023
- Reproduced results in leading papers in deep learning field and did presentations on some of them
- Collected and refined data to for training models about detecting triggering factors of the Freezing of Gait behaviors of Parkinson's patients (FoG Trigger detection).
- Did experiments to adapt Multimodal Large Language Models (MLLMs) for the FoG Trigger detection for alert systems and helped to develop methods that both enhanced both accuracy and interpretability compared to existing studies.
- Prepared to submit a paper on CHASE on the research about FoG Trigger detection.

Jiangsu Intelligent Transportation and V2X Laboratory

Nanjing, China

Research Assistant

Feb 2023 - Dec 2023

- Contributed by assisting and gathering data in the experiments of intelligent perception of traffic targets, big data mining and analysis, modeling and simulation, as well as active control algorithms.
- Achieved several innovative outcomes and applied for three invention patents based on related research.

INTERNSHIP

Jiangsu Tengquan Information Technology Co.Ltd

Nanjing, China

Software Engineer Intern

May 2023 - Aug 2024

- Assisted in the back-end development for online-class platform application for high-school students using Java frameworks Spring Boot.
- Took part in project acceptance by performing tests on all important functions of the online-class platform.

PROJECTS

- Implemented a Connect N game with self-designed features using JAVA.
- Developed a food delivering system using SQL .
- Predicted house prices based on features like number of rooms, location, size, etc by Apply linear regression on the Boston Housing datasets, and compare it against approaches such as neural network for regression.
- Designed a model about determinants of insurance price and made predictions with it. Made a presentation about the model.

SKILLS

- **Programming:** Python, JAVA, C/C++.
- **Data analysis tools:** MATLAB, R, PyTorch, SQL. Others: Latex.

HONORS

- Won Bronze Award (1200 in total) in the China International College Students' Innovation Competition 2023 (CICSIC) held by the Ministry of Education of the People's Republic of China. (Topic: Participated Highway Active Safety Intelligent Monitoring And Control System).