JIAQI WU

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EDUCATION

University of California—San Diego | La Jolla, CA
B.S. in Mathematics—Computer Science | Graduation expected June 2027

- GPA: 3.96/4.0. Major Coursework: Linear Algebra and Numerical Analysis, Recommender Sys & Data Mining, Computer Graphics, Probabilistic Model & Advanced ML.

American Mathematics Competition (AMC 12) | Certificate of Distinction | 2022

MATHCON 2019 Finals | Honorable Mention | Chicago, 2019

RELEVANT EXPERIENCES

Full Stack App Developer | UCSD CSSA | La Jolla, CA | July 2024 – Oct. 2024
- Developed a mobile application to support CSSA community engagement and event coordination.
- Built backend services using Node.js, managing client-server communication and deploying scalable data storage on Tencent Cloud.

Researcher | Agential | La Jolla, CA | Apr. 2024 – July 2024
- Researched agentic AI paradigms and implemented a ReAct-based AI agent architecture for Large Language Models using the **LangChain** framework.
- Enhanced performance on reasoning benchmarks (MBPP, TriviaQA) through the integration of zero-shot and few-shot prompting strategies.

Industry Research Assistant | Interactive Entertainment Technology Co., Ltd | Shanghai | Aug. 2022 – Sep. 2022
- Analyzed industry reports, conceptual brain maps, and UI interaction schematics.
- Designed in-game levels, including dynamic scene planning and experience rhythm flow, ensuring both numerical balance and engaging gameplay.

Programmer | Robotic Vision Piotech Robotic Team | Wayne, NJ | Oct. 2019 – Mar. 2023
- Developed and integrated **real-time object detection** algorithms using **OpenCV with Java** for autonomous navigation and targeting systems. Contributed to winning the **Rookie Inspiration Award** at the 2022 FIRST Robotics Regional Competition.

Student Researcher - Inspirit AI | Remote | June 2021 – July 2021
- Built a supervised learning pipeline using logistic regression and KNN to predict exoplanet presence from raw NASA data.
- Applied data preprocessing techniques including normalization and **SMOTE** for class balancing, resulting in a **performance boost from 64.0% to 99.7% accuracy**.

SKILLS

Languages: Python, C/C++, JavaScript, Java, HTML5/CSS

Tools: Git, MATLAB, AWS Console, Microsoft Suites, Adobe InDesign