

Jiaqi Wu

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Education

University of California San Diego — La Jolla, CA

Sep 2023 – Jun 2027

B.S. in Mathematics—Computer Science

B.S. in Cognitive Science—Machine Learning and Neural Computation

- GPA: 3.95/4.00

- **Major Coursework:** Numerical Analysis, Recommander Systems & Data Mining, Computer Graphics, Probabilistic Models & Advanced ML

Skills

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

Tools: Git, MATLAB, AWS console, Xcode, Microsoft Office, Adobe InDesign

Work Experience

Matlab Tutor, UCSD Department of Mathematics — La Jolla, CA

Mar 2025 – Present

- Provide one-on-one tutoring to more than 50 undergraduate students, reinforcing concepts in Linear Algebra and Differential Equations through hands-on MATLAB programming.

Full Stack Developer, UCSD CSSA — La Jolla, CA

Jul 2024 – Oct 2024

- Designed and prototyped a mobile application to support CSSA community engagement and event coordination, improving workflows for member interaction and organizational activities.
- Developed backend infrastructure including data models and an authentication service, using Node.js for client-server communication and deploying scalable storage solutions on Tencent Cloud.

Research Experience

Undergraduate Researcher, — La Jolla, CA

Jan 2025 – Present

- Designed and implemented an LLM-driven agent planning and recommendation framework powered by a graph-based knowledge representation, enabling structured reasoning and personalized decision support.
- Engineered a native iOS application in Swift that operationalized the framework end-to-end, integrating AWS Lambda, DynamoDB, S3, and CloudFront to ensure scalable computation, secure user authentication, and low-latency data delivery across devices.

Undergraduate Researcher, Agential — La Jolla, CA

Apr 2024 – Jul 2024

- Researched agentic AI paradigms; implemented a ReAct-based agent architecture for LLMs using LangChain.
- Improved results on reasoning benchmarks (MBPP, TriviaQA) via zero-shot and few-shot prompting strategies.

Programmer, Robotic Vision Piotech Robotic Team — Wayne, NJ

Oct 2019 – Mar 2023

- Implemented real-time object detection with OpenCV in Java for autonomous navigation and targeting.
- Contributed to winning the *Rookie Inspiration Award* at the 2022 FIRST Robotics Regional Competition.

Student Researcher, Inspirit AI — Remote

Jun 2021 – Jul 2021

- Built a supervised learning pipeline (logistic regression and KNN) to predict exoplanet presence from NASA data.
- Applied normalization and SMOTE for class balancing; improved accuracy from 64.0% to 99.7%.

Honors & Awards

- Valedictorian
- AMC 12 Certificate of Distinction
- MATHCON Finals, Honorable Mention, Chicago