Jiaqi Wu

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Education

University of California San Diego — La Jolla, CA   Sep 2023 – Dec 2026
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, Optimization, Recommender System & Data Mining, Computer Graphics, Probabilistic Models & Deep Learning

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 – Dec 2025
- 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

Research Assistant, ACM Lab — Remote   Sep 2025 – Present
- Developing a 200M-parameter foundation model for fMRI, pretrained on large-scale neuroimaging datasets including HCP-Aging and UK Biobank.
- Enabling downstream prediction tasks including demographic inference and neurological disease diagnosis, such as Alzheimer's and Parkinson's disease.

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.

Honors & Awards

- SanD Hackthon MAS Challenge Winner, San Diego
- Valedictorian
- AMC 12 Certificate of Distinction
- MATHCON Finals, Honorable Mention, Chicago