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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: 3.96/4.00
- **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, Xcode, Microsoft Office, Adobe InDesign

Project Experience

Full Stack Developer, Trai — Course Recommendation App Jan 2025 – Present

- Built a native iOS application in Swift, delivering a seamless and responsive user experience tailored for college students seeking personalized course recommendations.
- Designed and deployed AWS backend infrastructure (Lambda, S3, CloudFront, DynamoDB) to support scalable database operations, secure authentication, and fast content delivery.
- Integrated LLM-powered recommendation system using OpenAI's ChatGPT-4o mini for natural language–driven course guidance, balancing cost efficiency with strong performance.

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.

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