

Gaoying Wang

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EDUCATION

University of California, UCLA, Los Angeles, CA | Los Angeles , Los Angeles, CA | 2025

Master of Public Policy

GPA: 3.986/4.0

Relevant Courses:

Principles of Microeconomic Theory, Statistical Methods of Policy Analysis, Introduction to Programming and Data Management, Politics and Policymaking, Introduction to Geographic Information Systems

University of California San Diego, San Diego, US | (UCSD), San Diego, US | Major: Economics, BA; Minor: Data Science | 2023

GPA: 3.757/4.0

Relevant Courses:

Economics & Business Forecasting, Data Analysis and Inference, Economics of the Environment, Microeconomics, Monetary Economics, Econometrics, Macroeconomics, Analytical Writing

Awards & Honors

Winter 2020 to Spring 2022, Provost Honors, UCSD

EXPERIENCE

GnG Vacation **Los Angeles, US**
Full Stack Developer 02/2025 - 03/2026

- Independently developed a real estate iOS application for short-term rental property management of 100+ properties, handling the full product lifecycle from design to deployment (App Store: apps.apple.com/us/app/gng-vacation/id6754301030)
- Built an automated email marketing system processing 500+ bookings per month, streamlining tenant communication and improving booking conversion rates
- Designed and implemented an automated cleaning scheduling bot, optimizing turnover operations for vacation rental properties
- Developed a white-label Property Management System (PMS) enabling multi-brand deployment for rental operators
- Integrated AI-powered customer service chatbot to handle guest inquiries, achieving <30-second response time and reducing manual workload
- Created housing income analysis tools to provide property owners with data-driven revenue insights and pricing optimization (inquiry.gngvacation.com)
- Built web scrapers for Airbnb and Zillow to aggregate market data, enabling competitive analysis and dynamic pricing strategies

Los Angeles District Attorney's Office **Los Angeles, US**
Attorney Assistant 07/2024 - 09/2024

- Summarized case files, enhancing efficiency in case review
- Conduct evaluations of Reentry Programs, analyzing effectiveness and impact on reducing recidivism
- Prepared comprehensive reports on Reentry Program assessments, providing valuable insights to inform attorneys' decision-making and strategy development

- Developed strong analytical and reporting skills while working in a fast-paced legal environment

Suzhou ShuoZhi Environmental Technology Co., Ltd

Suzhou, China

Assistant Project Manager

05/2023 - 09/2023

- Led a project to manufacture clay bricks using sludge as a primary raw material, achieving quality comparable to high clay and shale content bricks
- Conducted daily monitoring and recording of raw material inputs, including precise measurements of elemental compositions (e.g., SiO₂, Fe₂O₃)
- Managed and documented tunnel kiln sintering temperatures, ensuring optimal firing conditions
- Developed a predictive formula to determine optimal sintering temperatures based on varying elemental compositions of raw materials
- Enabled the company to consistently produce high-quality clay bricks by implementing developed formula, improving resource utilization and product stability

ACADEMIC PROJECT EXPERIENCE

PUB PLC M224A: Combat Urban Heat Island Effect

Los Angeles, US

03/2024 - 06/2024

- Utilized ArcGIS to design a comprehensive series of maps illustrating the Urban Heat Island effect in Los Angeles
- Analyzed spatial data to identify areas most affected by elevated temperatures in urban environments
- Developed visualizations to demonstrate potential policy actions for mitigating the Urban Heat Island effect
- Integrated various data sources to create a holistic view of the issue, including temperature patterns, land use, and demographic information

RoomMagic AI — AI Interior Design Platform

Los Angeles, US

Full Stack Developer

10/2025 - Present

- Built an AI-powered interior design web application (Next.js + Python) that generates room redesigns from user-uploaded photos
- Implemented 10+ design styles with custom prompt engineering for image-to-image AI generation, achieving 90%+ consistency
- Developed multi-image upload and multi-angle project generation via REST API, deployed on cloud infrastructure

Quantitative Trading System — S&P 500

Los Angeles, US

Developer

08/2025 - Present

- Developed an automated stock trading system using multi-factor ranking strategies (momentum, beta, market cap) for S&P 500 stocks
- Built a real-time portfolio monitoring dashboard (React + Node.js API) with performance analytics and daily rebalancing
- Achieved Sharpe ratio >1.0 across 3-year backtests through systematic factor research and parameter optimization
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WeChat Official Account Automation — Suzhou ShuoZhi

Suzhou, China

Content Automation Developer

01/2026 - Present

- Designed and deployed an AI-driven content automation pipeline for a construction materials company's WeChat Official Account

- Built automated publishing workflow using browser automation (Playwright), reducing manual content operations by 90%
- Managed content strategy with rotating column system covering technical knowledge, industry insights, and R&D innovation

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SKILLS

- Language: Mandarin (Native), English (Fluent)
- Computer & Programming: Python, JavaScript/Node.js, Swift, R, SQL, Java, Stata, Matlab, ArcGIS, MS Office
- Frameworks & Libraries: Next.js, React, Express.js, Drizzle ORM
- Cloud & DevOps: AWS, Google Cloud, Vultr VPS, Docker, Nginx, PM2
- Databases: PostgreSQL, MongoDB
- AI/ML: AI Coding Agent (Claude Code, Codex, Gemini,. etc.), LLM Integration, AI Chatbot Development, Prompt Engineering, Image Generation
- Tools: Git, Playwright (Browser Automation), Web Scraping, Chrome Extension Development