

Xiaoxue (Alice) Wang

xiaoxuew895@gmail.com > 626-955-2376 > Los Angeles/San Francisco > [Linkedin](#) > [Github](#) > [Portfolio](#)

Transitioned to full-stack web development and completed nearly 1,000 hours of intensive training at App Academy. Currently pursuing a master's degree, expected to graduate in May 2025. Gained extensive hands-on experience in web development, AI integration, AWS, and Docker deployment.

LANGUAGES: Python, JavaScript

DATABASES: PostgreSQL, SQLite3, MongoDB

FRAMEWORKS: Flask, Express, React

TOOLS: Docker, AWS, Render, Netlify

OTHER: AI assistant integration in my website

PROJECT EXPERIENCE

Panda Mart(solo) >> Backend > Python | Flask | frontend > JavaScript | React

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- ✓ Utilized **Flask** and Flask-Restful to create backend routes with asynchronous handling, and **SQLAlchemy** ORM to validate incoming HTTP requests, enabling users to perform CRUD actions on features like products, reviews, favorites
- ✓ **Integrated an AI assistant** using **DeepSeek SDK** to enhance product management for sellers by providing automated insights and intelligent recommendations.
- ✓ **Implemented image upload functionality** using **AWS S3** allowing users to upload and store product images securely in the cloud. Integrated **AWS SDK** on the backend with **Flask** to handle file uploads, generate pre-signed URLs, and ensure efficient storage and retrieval.

RobinHood Clone(group) >> Backend > Python | Flask | frontend > JavaScript | React

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- ✓ **Designed and implemented the complete database** using **Python** and **SQLAlchemy**.
- ✓ Utilized **Python** decorators and **Flask** blueprints to create **RESTful API** endpoints backed by **PostgreSQL** allowing users to perform CRUD actions as part of watchlist feature.
- ✓ Deployed the application using **Docker** on **Render**, automating deployment and ensuring scalability, high availability, and reliability for end-users.

CCAirbnb(backend group, frontend solo) >> Backend > JavaScript | Express | frontend > JavaScript | React

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- ✓ Implemented two complete CRUD for spot listings and user reviews, along with statistical analysis of review data, using **Express**, **PostgreSQL**, and **React Redux** to enable efficient spot management and structured review insights.

WORK EXPERIENCE

Shenzhen Motern Technology Co., Ltd. >> **Data Analyst** > ShenZhen, China

December 2020 – February 2024

- ✓ **build a data management system from the ground up**, enabling management to make informed decisions
- ✓ Supported the market department in managing pre-investment strategies, leading to an 11% overall ROI improvement in 2023 and a 40% ROI increase in newly implemented scenarios, **reducing operational costs by approximately 10M RMB**
- ✓ Developed systems to monitor performance and efficiency, helping two market departments achieve ROI that was twice the company average
- ✓ Provided key insights and support that helped secure **Tencent's investment** in the company

EDUCATION

NORTHERN ARIZONA UNIVERSITY >> Master of Computer Information Technology

Expected May 2025

APP ACADEMY (coding school) >> Full Stack Web Development

Completed Jan 2025

GUANGDONG UNIVERSITY OF FINANCE & ECONOMICS >> Bachelor's degree, Economic Statistics

Completed Jun 2017