

Qi Chen

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Work Experience

Tech Analyst @ Payby Tech LTDA, Remote | 01/2024 – Present

- Managed PostgreSQL databases and conducted advanced data analysis using Python, supporting data-driven business decisions.
- Co-developed backend systems for user login and performance indicators, laying the groundwork for future recommendation systems.
- Implemented the Menu Item To Nutrition (MINT) model to generate nutrition facts from menu items, enhancing menu transparency using machine learning.
- Collaborated remotely within a data analytics team of three, guided by a senior developer.

Backend Engineer @ Delet, Los Angeles, CA | 05/2024 – Present

- Developed APIs for hardware integrations, including smart locks and camera systems, enhancing the security of self-showing apartments.
- Authored comprehensive backend documentation using Swagger to facilitate understanding and maintenance by future developers.
- Collaborated remotely with cross-functional teams to ensure seamless integration and functionality of backend and frontend systems.

Project

(Python & MySQL) Project: SteamDream – Steam Game Recommendation Website Developer | 01-06/2023

- **Back-end Web Development:** Led the design and development of the database structure and critical feature implementation.
- **Front-end Web Development:** Co-developed a Steam game recommendation site using Python, Flask, and MySQL.
- **Deployed:** Deployed through Google Cloud.

(PostgreSQL, Amazon MSK, AWS) Project: Advanced Flight Planning System | 01-05/2024

- **Data Management:** Managed flight data using PostgreSQL on AWS, ensuring reliable data quality and system performance.
- **Real-Time Processing:** Used Amazon MSK with Node.js for prompt data processing, improving post-landing workflow estimates.
- **Flight Tracking:** Implemented a system to track flights and estimate post-landing times, streamlining travel planning.

(PyTorch & Random Forest) Project: Laptop Price Prediction and Recommendation System | 01-05/2024

- **Data Preparation:** Prepared and optimized laptop data for model training, focusing on feature relevance and data quality.
- **Model Training:** Trained a Random Forest model for accurate price prediction, surpassing other algorithms in performance.
- **Recommendations:** Built a system to recommend laptops, guided by the model to identify the best values for consumers.

Education

University of Southern California | Los Angeles, CA

Master's in Electrical & Computer Engineering (Data Science and Machine Learning)

08/2023 - 05/2025 | GPA: 3.6/4.0

- Relevant Courses: Supervised Method, Applied Cloud Computing, Probability, Linear Algebra
- Specializing in Data Science and Machine Learning.

University of Illinois, Urbana-Champaign | Champaign, IL

Bachelor's in Computer Engineering

08/2019 - 05/2023 | GPA: 3.4/4.0

- Relevant Courses: Algorithms, Artificial Intelligence, Database Systems, Data Structure.
- Minor in Microeconomics.