

Andres Mercado

BACKEND SOFTWARE ENGINEER

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Backend Engineer with 2 years of experience developing efficient backend systems. Proficient in Python, SQL, and Flask, I build APIs, optimize databases, and integrate cloud solutions. I transitioned AeroSkyOps from a static to a backend-driven application using PostgreSQL, SQLAlchemy, AWS, and Docker to enhance data management and reliability. Passionate about solving backend challenges and building maintainable systems.

LANGUAGES: Python, JavaScript, SQL

FRAMEWORKS: Flask (with WTForms), Express

Cloud & DevOps: AWS (EC2, S3), Docker, Nginx

DATABASES: PostgreSQL, SQLite, MongoDB

TOOLS: GitHub, Postman

WORK EXPERIENCE

Rabbit Aviation >> Backend Engineer > San Carlos, CA

April 2022 – Current [Live](#)

Flask, SQLite, PostgreSQL, AWS, Docker

- **Migrated from MongoDB to PostgreSQL** with SQLAlchemy for relational data, improving management of aircraft-to-parking assignments and owner-aircraft links. This transition enhanced data integrity, simplified relationship navigation for better query performance, and increased system reliability.
- **Developed RESTful APIs** with Flask and SQLAlchemy to integrate flight tracking and real-time weather data via the FlightAware API, enhancing employee access to critical aviation insights.
- **Leveraged AWS (S3 & EC2)** for aviation data storage, ensuring system reliability and scalable performance.
- **Designed an aircraft parking assignment system**, replacing manual tracking with a structured database-driven solution, reducing errors and improving operational efficiency.
- **Deployed backend services** using Docker on AWS EC2, configured with an Amazon domain, Nginx, and TLS encryption to ensure secure and scalable access.

Real Estate investor >> Owner > Stockton, CA

October 2018 – Current

- **Achieved a six-figure income within** five years by strategically investing in and managing real estate, demonstrating strong market analysis and decision-making skills.
- **Managed a portfolio of properties with 14 tenants**, overseeing property maintenance, tenant relations, and financial management to ensure high occupancy rates and tenant satisfaction.
- **Built and led a reliable team**, coordinating various aspects of property management, from renovations to tenant communications, showcasing leadership and collaboration abilities.

Rabbit Aviation >> Line Service Technician > San Carlos, CA

September 2017 – August 2023

- **Managed fuel logistics** and ensured precise fueling operations for private aircraft, maintaining compliance with strict aviation safety protocols.
- **Operated fuel trucks and coordinated** timely fuel distribution, optimizing workflow efficiency within airport operations.
- **Troubleshooted real-time operational** issues with team members, ensuring safe and effective handling of critical fueling tasks.

PROJECT EXPERIENCE

WUBER EATS >> Flask, PostgreSQL, SQLite, WTForms, Render

[GitHub](#) > [Live](#)

An UberEats clone that allows users to create restaurants, add menus, leave reviews, and manage their shopping cart.

- Designed and implemented RESTful APIs with Flask and PostgreSQL to handle restaurant management, including menu creation, order processing, and user authentication.
- Integrated PostgreSQL and SQLite to enable restaurants to manage menus and receive customer reviews, enhancing user engagement and operational efficiency.
- Optimized backend architecture for restaurants, enhancing database efficiency for menu updates and cart operations.
- Collaborated with teammates using WTForms and Render to ensure seamless code integration, preventing deployment issues and enhancing team workflow.

EDUCATION

APP ACADEMY >> Software Engineering

Completed June 2024

Coding Dojo >> Python, MERN Stack

Completed April 2022