

# Andres Mercado

## BACKEND SOFTWARE ENGINEER

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Backend Engineer with 2 years of experience engineering efficient backend systems. Proficient in Python, SQL, and Flask, I build scalable APIs, optimize databases, and integrate cloud solutions. I transitioned AeroSkyOps from a static to a backend-driven application using PostgreSQL, SQLAlchemy, AWS, and Docker, enhancing data reliability and streamlining operations for small airports. 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

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**Rabbit Aviation** >> Backend Engineer > San Carlos, CA

April 2022 – Current [Live](#)

Flask, SQLite, PostgreSQL, AWS, Docker

- **Replaced an unstructured MongoDB setup with PostgreSQL**, introducing relational integrity for aircraft assignments, reducing manual errors, and improving database query efficiency.
- **Developed RESTful APIs with Flask and SQLAlchemy** to integrate near-live flight tracking and real-time weather updates via the FlightAware API, providing up-to-date aviation insights based on user-input tail numbers.
- **Utilized AWS (S3 & EC2) for scalable data storage**, ensuring high availability and system reliability.
- **Engineered an aircraft parking assignment system**, replacing error-prone manual tracking with a structured, database-driven solution that dynamically assigns aircraft to parking spots, improving operational efficiency.
- **Orchestrated Dockerized backend services on AWS EC2**, integrating Nginx and TLS encryption for secure, high-availability API 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.
- **Collaborated with team members** to troubleshoot real-time fueling issues, ensuring safe and efficient operations.

## PROJECT EXPERIENCE

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**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 restaurant management, improving database efficiency for menu updates and seamless cart operations.
- Worked with teammates using WTForms and Render to streamline code integration, improving deployment reliability and team collaboration.

## EDUCATION

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**APP ACADEMY** >> Software Engineering

Completed June 2024

**Coding Dojo** >> Python, MERN Stack

Completed April 2022