

Andres Mercado

BACKEND SOFTWARE ENGINEER

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Backend engineer with 2 years of experience delivering scalable solutions. Proficient in Python, SQL, and Flask, I design efficient systems and APIs, integrating complex datasets to streamline operations. My background includes transitioning projects from frontend to backend-focused architectures and leveraging tools like PostgreSQL, SQLAlchemy, and Docker to build impactful applications.

LANGUAGES: Javascript, Python, SQL, HTML, CSS
MongoDB

DATABASES: PostgreSQL, SQLite SQLAlchemy, Sequelize,

FRAMEWORKS: React, Redux, Express, Flask

TOOLS: GitHub, Postman, Cloudinary, WForms

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

WORK EXPERIENCE

Rabbit Aviation >> Backend Engineer > San Carlos, CA

April 2022 – Current [Live](#)

Flask, PostgreSQL, SQLite, PostgreSQL, AWS, Docker

- **Transitioned database** from MongoDB to PostgreSQL using SQLAlchemy, enabling efficient relational data handling and improving query performance.
- **Designed and implemented RESTful APIs** with Flask and Express to facilitate flight tracking and fuel management, enabling employees to log and manage operational data efficiently.
- **Leveraged AWS (S3 & EC2)** for aviation data storage, ensuring system reliability and scalable performance.
- **Built a dynamic aircraft parking assignment system**, reducing manual tracking errors and streamlining operations for employees.
- **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 properties, demonstrating strong financial acumen and market analysis 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, React, Redux, PostgreSQL, SQLite, WForms, Cloudinary, Render

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

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

- Utilized the useDispatch hook to dispatch actions to the Redux store, displaying a modal where users can update items in their cart.
- Integrated restaurant functionalities using PostgreSQL and SQLite, allowing restaurants to manage menus and receive customer reviews, enhancing user engagement and operational efficiency.
- Designed and optimized backend systems for restaurant management, enabling efficient menu updates and seamless cart operations.
- Collaborated with teammates using WForms and Render to ensure seamless code integration, preventing deployment issues and enhancing team workflow.

EDUCATION

APP ACADEMY >> Full Stack Web Development

Completed June 2024

Coding Dojo >> Python, MERN Stack (MongoDB, Express, React, Node.js)

Completed April 2022