

Andres Mercado

FULL STACK SOFTWARE ENGINEER

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Full-Stack Engineer with 2 years of experience engineering and deploying dynamic web applications. Skilled in JavaScript, Python, and SQL, I build interactive frontends while designing scalable backend architectures. With a background in aviation and real estate, I excel at solving complex problems and delivering robust, user-focused solutions.

LANGUAGES: JavaScript, Python, SQL, HTML, CSS

FRAMEWORKS: React, Redux, Express, Flask (with WTForms)

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

DATABASES: PostgreSQL, SQLite, MongoDB

TOOLS: GitHub, Postman, Cloudinary

WORK EXPERIENCE

Rabbit Aviation >> Full-Stack Engineer > San Carlos, CA

April 2022 – Current [Live](#)

Flask, React, Redux, PostgreSQL, SQLite, AWS, Docker

- **Engineered RESTful APIs with Flask** for flight tracking, fuel management, and authentication, seamlessly integrating them with a React-based UI to ensure smooth data synchronization.
- **Redesigned system architecture by migrating from a MERN stack to Flask/PostgreSQL**, improving API efficiency, frontend scalability, and data integrity in aircraft-to-parking and owner-aircraft relationships.
- **Developed a Flask-React fuel order system**, streamlining fuel request management and reducing manual coordination for linemen.
- **Integrated FlightAware AeroAPI and Weather API with Flask**, delivering real-time airport weather conditions and flight tracking through backend-driven API calls.
- **Deployed the full-stack system on AWS EC2**, leveraging Docker, Nginx, and TLS encryption for secure and scalable infrastructure.
- **Developed an interactive aircraft parking assignment system**, allowing employees to dynamically assign, update, and track aircraft parking spots via a React-based UI with a Flask/PostgreSQL backend.

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

- **Ensured precise fueling** operations and coordinated logistics for private aircraft while adhering to strict safety protocols.
- **Operated fuel trucks to transport** and distribute fuel within a private airport environment, maintained efficient logistics and timely fuel delivery to support aircraft operations, prioritized safety, and strictly adhered to protocols.
- **Collaborated with team** members to troubleshoot real-time issues, enhancing operational efficiency and safety.

PROJECT EXPERIENCE

WUBER EATS >> Flask, React, Redux, PostgreSQL, SQLite, WTForms, Cloudinary, Render

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

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

- **Designed RESTful API endpoints with Flask**, supporting restaurant management, order tracking, and user authentication.
- **Built a responsive frontend with React and Redux**, enabling interactive cart functionality with real-time updates.
- **Optimized PostgreSQL and SQLite databases**, improving query performance and data retrieval efficiency.
- **Configured Cloudinary for optimized image storage**, enhancing page load speeds and UI performance.
- **Integrated Redux and Flask for seamless frontend-backend data synchronization.**
- **Led feature development and deployments in a full-stack team**, ensuring smooth integration with WTForms and Render.

EDUCATION

APP ACADEMY >> Software Engineering

Completed June 2024

Coding Dojo >> Python, MERN Stack

Completed April 2022