# Andres Mercado
## FULL STACK SOFTWARE ENGINEER

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Full-Stack Software Engineer with 2 years of experience designing scalable web applications using Python, Flask, React, and PostgreSQL. Developed AeroSkyOps, an aviation management platform that optimized fuel requests and aircraft assignments, replacing manual tracking. Proficient in API development, database optimization, and AWS/Docker deployments. Combines technical skills with business strategy from real estate investment.

**LANGUAGES:** JavaScript, Python, SQL, HTML, CSS    **DATABASES:** PostgreSQL, SQLite, MongoDB
**FRAMEWORKS:** React, Redux, Express, Flask (with WTForms)    **TOOLS**: GitHub, Postman, Cloudinary
**Cloud & DevOps:** AWS (EC2, S3), Docker, Nginx

## WORK EXPERIENCE

**Rabbit Aviation  >>**  *Full-Stack Engineer (Project: AeroSkyOps)  >  Remote*                    **April 2022 – Current**  [Live](Live)
Built AeroSkyOps while working as a Line Service Technician to solve operational inefficiencies.
  **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 AeroSkyOps, a Flask-React aircraft management platform**, replacing error-prone manual tracking with a dynamic system for real-time fuel orders, aircraft assignments, and operational oversight. Integrated PostgreSQL for data persistence and AWS for cloud-based scalability.
- ***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.*
- ***Designed 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 real estate portfolio over 6 years,** overseeing tenant relations, financial strategy, and property operations. Developed analytical, problem-solving, and adaptability skills—critical in engineering scalable software solutions.
- **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](GitHub) **>** [Live](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**