

Andres Mercado

BACKEND SOFTWARE ENGINEER

andresam321@proton.me > 510-695-4124 > [Linkedin](#) > [GitHub](#) > [Portfolio](#) > San Francisco Bay Area CA

Backend Software Engineer with 2 years of experience building scalable APIs and backend systems using Python, Flask, and PostgreSQL. At Stacksync, I delivered stateless connectors using Google Cloud Run and job ID-based workflows. Also built Hey Compa, an AI-powered backend that extracts and interprets payment data using OCR and GPT. Skilled in serverless architecture, AI integration, and OCR pipelines with a proven ability to solve real-world problems through backend solutions.

LANGUAGES: Python, JavaScript, SQL

DATABASES: PostgreSQL, SQLite, MongoDB

FRAMEWORKS: Flask (with WTForms), Express

TOOLS: GitHub, Postman

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

WORK EXPERIENCE

Stacksync >> Backend Engineer (Contractor) > Remote

June 2025 – Current

Python, Flask, Google Cloud Run, Webhooks

- **Collaborated with Stacksync's GTM engineer** to design and deliver a production-grade connector for Firecrawl's scraping and extraction API.
- **Developed and deployed six stateless, serverless actions (`scrape`, `batch_scrape`, `extract`, `search`, `execute`, `crawl`)** aligned with secure, scalable architecture.
- **Applied prompt engineering techniques** to structure AI-driven extraction and search responses, improving output consistency and relevance.
- **Deployed the connector using Google Cloud Run** to simulate real-world usage and validate API response handling.
- **Delivered Firecrawl's first production connector**, with plans to build additional connectors supporting future tools and workflows.
- **Built multiple production-grade connectors** (e.g., Firecrawl) under Stacksync's Catalyst Program, focusing on stateless architecture, webhook delivery, and dynamic schema handling.

Hey-Compa (Personal Project) >> Backend Engineer > Remote

May 2025 – June 2025

Flask, PostgreSQL, OpenAI API, AWS, Docker, PaddleOCR

- **Developed a backend system** for Hey-Compa, an AI-powered OCR assistant that guides underserved users through bill payments.
- **Integrated PaddleOCR** to extract billing information (vendor, due date, amount) from uploaded images.
- **Designed and implemented** a PostgreSQL schema to store and match bill data to vendor-specific payment instructions.
- **Built modular, RESTful APIs** in Flask to serve real-time guidance, with future upgrades including voice instructions.
- **Implemented OpenAI's GPT API** to generate vendor-specific, step-by-step payment instructions from raw OCR output.
- **Paused** development to prioritize production-level engineering work at Stacksync.

Rabbit Aviation >> Backend Engineer (Project: AeroSkyOps) > Remote

April 2022 – May 2025 [Live](#)

Built and deployed AeroSkyOps, a backend platform streamlining aircraft operations for a private airport.

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.
- **Engineered a database-driven aircraft parking assignment system** that replaced manual tracking in internal testing, dynamically assigning aircraft to parking spots and improving operational efficiency.
- **Deployed Dockerized backend** on AWS EC2 with Nginx and TLS for secure 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.
- **Managing 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.

EDUCATION

APP ACADEMY >> Software Engineering

Completed June 2024

Coding Dojo >> Python, MERN Stack

Completed April 2022