

ANDRES HERNANDEZ

Phoenix, AZ · (915) 539-2039
justcallmeandres@gmail.com · www.justcallmeandres.com

Senior Software Engineer with 8+ years of experience building Python platforms, SaaS products, scalable APIs, and reliable distributed services across enterprise and startup environments. Deep expertise in Django and FastAPI, including multi-tenant product development, user-facing GenAI services, observability, and relational data systems. Known for pragmatic technical leadership, hands-on architecture improvement, mentorship, and disciplined use of AI-assisted development tools.

SKILLS

- **Python Platform & Web:** Python, FastAPI, Django, DRF, Flask, SQL, React, JavaScript, HTMX, HTML/CSS
- **Developer Workflow & Delivery:** Claude, Codex, Cursor, CodeRabbit, uv, Docker/Compose, pre-commit, CI/CD, GitHub Actions
- **Distributed Systems & Data:** API design, microservices, Celery, RabbitMQ, Redis, SQS, PostgreSQL, MySQL, MongoDB
- **GenAI & Observability:** User-facing GenAI services, LangChain, LangGraph, OpenTelemetry, Sentry, PostHog, logging, metrics, alerts
- **Cloud & Infrastructure:** AWS, Kubernetes, Terraform, Azure, GCP, SonarQube

EXPERIENCE

OCTOBER 2025 – PRESENT

SENIOR SOFTWARE ENGINEER, QUOTAPATH

- **Build customer-facing SaaS capabilities** across Django and React within a multi-tenant architecture organized around client and workspace boundaries.
- **Develop user-facing AI services** that generate and configure in-app content, reducing manual setup for customers.
- **Refactor core application areas and improve architecture**, simplifying core flows, strengthening boundaries, and making the codebase easier to extend and test.
- **Use Claude extensively** for technical discovery, implementation, debugging, and large refactors, validating agent-generated changes through tests and code review.

NOVEMBER 2024 – OCTOBER 2025

SENIOR AI/ML SOFTWARE ENGINEER, AMERICAN EXPRESS

- **Built and operated production Python/FastAPI services** for ML/GenAI workloads, including real-time inference APIs handling 30K–100K+ daily requests and LLM proofs of concept with LangChain/LangGraph.
- **Standardized Python developer workflows** with uv dependency management, pinned dependencies, Docker Compose, and pre-commit automation, significantly reducing onboarding and setup time.
- **Implemented production observability** with OpenTelemetry-based logging and metrics, dashboards, and error alerting, reducing debugging time and improving reliability.
- **Refactored legacy ML prediction pipelines** into more stable and maintainable systems, improving resilience and reducing operational overhead.
- **Mentored team of engineers** through pair programming, design and code reviews, and guidance on production engineering practices.

MARCH 2022 – NOVEMBER 2024

SENIOR SOFTWARE ENGINEER, ALERTMEDIA

- **Built and maintained scalable Django/DRF APIs** with Celery and RabbitMQ powering asynchronous background jobs and user data ingestion.
- **Developed platform integrations** for Microsoft Entra ID/Graph API, Concur travel APIs, and other third-party providers.
- **Implemented granular RBAC** with DRF permissions to strengthen platform security.
- **Operated and supported production systems on AWS** using CloudWatch and log analysis to resolve incidents across S3, RDS, EC2, Route 53, and Secrets Manager.
- **Mentored 5+ engineers** through code reviews and design guidance, improving engineering maturity and delivery quality.

APRIL 2019 – MARCH 2022

DATA ENGINEER, AMERICAN EXPRESS

- **Led delivery of business-critical internal applications** in partnership with business and engineering stakeholders, supporting enterprise-wide workflows.
- **Modernized a legacy monolith into Java/Spring microservices** improving scalability and maintainability.
- **Automated Jenkins CI/CD and designed relational data solutions** across MySQL and Oracle, accelerating releases and supporting reliable data operations.

SEPTEMBER 2018 – APRIL 2019

DEVELOPER / DATA ANALYST, FOUNDATION FOR BLIND CHILDREN

- **Contributed to a five-person startup initiative** by developing backend systems and improving data ingestion for front-end applications and reporting.
- **Used Python for data transformation and visualization** with Pandas, Jupyter, and Matplotlib to generate decision-support insights.

NOVEMBER 2018 – JUNE 2019

ASSISTANT PYTHON TEACHER, UNIVERSITY OF ARIZONA

- **Co-instructed data analysis and web development courses** and mentored students through hands-on Python projects across multiple cohorts.

2013 – 2018

DATA ARCHITECT, AMERICAN EXPRESS

- **Designed conceptual, logical, and physical data models** and advised stakeholders on data strategy for scalable, reliable enterprise systems.
- **Defined enterprise data standards and dictionaries** improving governance, naming consistency, and cross-team collaboration.

EDUCATION

JULY 2018 – SEPTEMBER 2018

DATA SCIENCE CERTIFICATION, GALVANIZE

- *Focused on Python, ML, NLP, and statistical modeling.*

JULY 2014

BS COMPUTER INFORMATION SYSTEMS (CIS), DEVRY UNIVERSITY

- Senior Project Nationwide Grand Prize Winner (2014); music video web application