Anthony James Padavano

Python Developer — AI Systems & Automation

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Summary

Python developer and AI systems engineer with a testing-first discipline — 4,000+ automated tests, 736 test files, 58 passing CI workflows across 91 repositories. Built a model-agnostic multi-agent framework (1,095+ tests, 9 topologies, FastAPI dashboard) and production infrastructure with Docker, Terraform (AWS), and PostgreSQL. Meta Full-Stack Developer certified. Previous experience as Digital Marketing Manager at Miami Dade College Foundation.

Skills

Languages: Python, TypeScript, JavaScript, Rust, Bash, SQL

Backend: FastAPI, Fastify, Express, PostgreSQL, Redis

Frontend: React, Next.js, Astro, Tailwind CSS

AI / ML: Multi-agent systems, LLM orchestration, vector search (ChromaDB), model-agnostic (Anthropic/OpenAI/Ollama)

Infrastructure: Docker, Terraform (AWS), GitHub Actions (58 CI workflows), Vercel, CI/CD

Testing: pytest, Vitest, Jest, TDD — 4,000+ automated tests, 736 test files, 58 passing CI workflows

Desktop & Blockchain: Tauri (Rust), Solana/Anchor smart contracts

selected projects

Agentic Titan   2024 — Present
- Model-agnostic multi-agent framework — 9 topology patterns, 22 agent archetypes, FastAPI dashboard, Redis task queuing, Celery workers, Ray Serve deployment
- 1,095+ tests across 18 implementation phases; production safety infrastructure with circuit breakers, rate limiting, and graceful degradation

Public Record Data Scrapper   2024 — Present
- Full-stack data platform — React 19 frontend, Express API, PostgreSQL, 2,055 automated tests
- Tauri desktop app (Rust), Terraform AWS infrastructure (RDS, ElastiCache, S3, Cloud-Watch), Vercel deployment

Life My Midst In   2024 — Present
- Next.js 16 + React 19 frontend, Fastify 5 backend, Docker orchestration (4 Dockerfiles, PostgreSQL + Redis compose)
- W3C Verifiable Credentials integration; Railway, Render, and Vercel deployment configs

Recursive Engine (RE:GE)   2024 — Present
- Pure Python symbolic engine — 21 handlers, ritual syntax DSL, 1,254 tests, 85% coverage

The Actual News   2024 — Present
- Express microservices architecture (4 services), Docker Compose orchestration, content-addressed evidence graphs

Experience

Independent, AI Systems Developer   New York City
- Built model-agnostic multi-agent framework with 1,095+ tests, 9 topologies, FastAPI   2021 – present
  dashboard, and production deployment configs (Docker, Redis, Celery, Ray Serve)   5 years
- Developed pure Python symbolic engine (1,254 tests, 85% coverage) with a custom DSL
- Shipped 91 repositories with 58 passing CI workflows, 736 test files, and 3,586 code files
  across a coordinated multi-org architecture
- Built full-stack applications with React, Next.js, FastAPI, Express, Fastify, PostgreSQL,
  Redis, and Docker

Miami Dade College Foundation, Digital Marketing Manager   Miami, FL
- Designed and executed digital campaigns increasing donor engagement by 32% and   2023 – 2024
  surpassing fundraising goals   1 year
- Rebuilt foundation website — 38% traffic growth, 22% improvement in donation conver-
  sions
- Trained team members on advanced analytics tools, leading to 20% efficiency boost in
  reporting

AJP Media Arts, Multimedia Specialist & Developer   New York City
- Built and managed 15 client websites with custom development — 42% engagement   2011 – present
  increase, 30% speed improvement   15 years
- Integrated SEO and paid media strategies achieving 290% ROI for key campaigns
- Conducted A/B testing and performance analysis to optimize campaigns — 27% engage-
  ment boost

Education

M.F.A. Florida Atlantic University, Creative Writing   2015 – 2018

B.A.   CUNY College of Staten Island, English Literature   2010 – 2014

Certifications

Full-Stack Developer — Meta: 2023 — 2024

UX Design — Google: 2022 — 2023

Digital Marketing & E-commerce — Google: 2022 — 2023

Project Management — Google: 2022 — 2023