Anthony James Padavano

Software Engineer — Backend, Platform & AI Infrastructure

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Summary

I build production systems that solve expensive problems — not demos, but live platforms that are tested, deployed, and running. Backend and platform engineer with a testing-first discipline: I own systems end-to-end across data, infrastructure, AI, and deployment. Sole architect of a 309-repository system across 8 GitHub organizations governed by a self-healing CI/CD fleet. Meta-certified Full-Stack Developer with 12+ years shipping software, infrastructure, and content at scale. Python and TypeScript, end to end.

Skills

Backend: Python, FastAPI, Fastify, Express, Node.js, PostgreSQL, Redis, REST APIs, event-driven services

Infrastructure: Docker, Terraform (AWS — multi-AZ RDS, ElastiCache, S3), GitHub Actions CI/CD, Cloudflare Workers, Nginx, GCP

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

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

Testing & Quality: pytest, Vitest, Jest, TDD, ruff, CodeQL — CI-gated across the fleet

Frontend & Tooling: React, Next.js, Astro, Vite, pnpm monorepos, Zod, YAML/JSON Schema, Git

selected projects

50-State Public-Record Data Platform 2024 — Present

- Backend platform ingesting public records across all 50 U.S. states — 60+ collection agents, PostgreSQL, deployed on Terraform-provisioned AWS (multi-AZ RDS, Redis/ElastiCache, S3)
- 3,399 passing tests with circuit breakers, rate limiting, and graceful degradation for reliable large-scale collection

Peer-Audited Behavioral Blockchain 2024 — Present

- NestJS + Next.js + React Native + Tauri monorepo with Stripe escrow and a double-entry ledger; SHA-256 hash-chained audit log
- 1,107 tests behind CodeQL and CI gates; live pitch surface serving 200 OK

Agentic Titan — Multi-Agent Orchestrator 2024 — Present

- Model-agnostic orchestration framework coordinating Claude, Codex, and Gemini across 9 self-organizing topologies with a FastAPI control dashboard
- 1,095+ tests; Redis task queuing, Celery workers, Ray Serve deployment

Limen — Self-Healing Agent Fleet 2024 — Present

- Heartbeat-driven autonomic infrastructure that governs 309 repositories with a 9-rung organ ladder — task intake, dispatch, verification, and merge with near-zero manual upkeep
- Budget-capped, persona-gated task system with a FastAPI/Cloudflare-Worker runtime and GitHub-native storage

AI Chat Exporter 2024 — Present

- ~5,900-line TypeScript tool, 5 export formats, 9-language UI; 170 tests, 549 commits
- Distributed across GreasyFork, GitHub, Docker, and Cloudflare Pages

Experience

ORGANVM (Independent), Software Engineer & Developer-Tools Builder — New York City
2020 – present
6 years

- Designed and operate a 309-repository production system across 8 GitHub organizations, governed by a self-healing CI/CD fleet with automated dependency validation and promotion state machines
- Built backend platforms and developer tooling in Python and TypeScript — data pipelines, multi-agent AI orchestration, MCP gateways, and reliable automation — deployed on Docker, Terraform/AWS, and Cloudflare
- Testing-first throughout: thousands of automated tests behind GitHub Actions CI gates across the estate

Miami Dade College Foundation, Digital Marketing Manager — Miami, FL
2023 – 2024
1 year

- Rebuilt the foundation website and ran data-driven campaigns that increased donor engagement 32% and improved donation conversions

Broward College, FAU, Miami Dade College, Nova Southeastern, Keiser, and others, Instructor — Composition & Writing — Remote / South Florida
2015 – present
11 years

- Designed and taught 100+ college composition courses to 2,000+ students across 8+ institutions; built accessible, analytics-informed curricula

AJP Media Arts, Multimedia Specialist — New York City
2011 – 2020
9 years

- Produced video, audio, and web campaigns for arts and nonprofit clients — 17.5M+ views and $2M in attributed client fundraising

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: 2024

UX Design — Google: 2023

Digital Marketing & E-commerce — Google: 2023

Project Management — Google: 2023