

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 - 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	2024 — Present
Peer-Audited Behavioral Blockchain - 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	2024 — Present
Agentic Titan — Multi-Agent Orchestrator - 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	2024 — Present
Limen — Self-Healing Agent Fleet - 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	2024 — Present
AI Chat Exporter ~5,900-line TypeScript tool, 5 export formats, 9-language UI; 170 tests, 549 commits - Distributed across GreasyFork, GitHub, Docker, and Cloudflare Pages	2024 — Present

Experience

ORGANVM (Independent) , Software Engineer & Developer-Tools Builder - 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	New York City 2020 – present 6 years
Miami Dade College Foundation , Digital Marketing Manager Rebuilt the foundation website and ran data-driven campaigns that increased donor engagement 32% and improved donation conversions	Miami, FL 2023 – 2024 1 year
Broward College, FAU, Miami Dade College, Nova Southeastern, Keiser, and others , Instructor — Composition & Writing Designed and taught 100+ college composition courses to 2,000+ students across 8+ institutions; built accessible, analytics-informed curricula	Remote / South Florida 2015 – present 11 years
AJP Media Arts , Multimedia Specialist Produced video, audio, and web campaigns for arts and nonprofit clients — 17.5M+ views and \$2M in attributed client fundraising	New York City 2011 – 2020 9 years

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