Anthony James Padavano

STAFF BACKEND ENGINEER (API PLATFORM & ORCHESTRATION)

New York City | 561-602-7300 | padavano.anthony@gmail.com

LINKS

Portfolio · GitHub · agentic-titan · ORGANVM System

PROFILE

Independent software engineer and systems architect building production-grade API platforms, multi-agent orchestration frameworks, and scalable developer tools in TypeScript and Python. Creator and sole architect of a 103-repository ecosystem across 8 GitHub organizations governed by automated validation, 94 CI/CD pipelines, and 2,349+ tests. Specialist in architecting deep "Cathedral" backends designed for high-signal scannability, high-velocity research acceleration, and bridging the gap between agentic model capabilities and reliable engineering infrastructure. Expert in "solo production at institutional scale," utilizing an "AI-conductor" methodology to maintain technical integrity while building the scannable "Storefront" layers for connected intelligence. Full-Stack Developer (Meta). 18 years professional experience. MFA Creative Writing. LGBTQ+.

TECHNICAL SKILLS

TypeScript · Python · API/SDK Design · Node.js · CLI Tooling · GitHub Actions · CI/CD · Zod · pytest · Vitest · YAML/JSON Schema · Claude Agent SDK · Docker · Git · React 18 · pnpm Monorepos · GCP / Terraform · WebSocket · Redis · Nginx · D3.js · p5.js

SELECTED PROJECTS

agentic-titan — Multi-Agent Orchestration & API Framework
TypeScript framework for orchestrating complex, multi-step engineering tasks across autonomous agents. Includes 18 development phases and 1,276 tests. Engineered for high-reliability tool invocation, task decomposition, and extensible API abstractions for agentic workflows.

ORGANVM Eight-Organ System — 103-Repository Developer Infrastructure
A unified technical corpus encompassing 21K code files and 3.6K tests across 8 organizations. Governed by a formal promotion state machine and automated dependency validation (43 edges). Features 128 GitHub Actions workflows built on 18 reusable templates. A live demonstration of how institutional-scale API platforms can be managed by a solo practitioner.

agent--claude-smith — Claude Agent SDK Reliability Layer
Advanced agent implementation built on Claude Agent SDK. Features session persistence, self-correction hooks, and structured tool invocation designed to understand and mitigate model capability gaps in complex engineering tasks.

Application Pipeline — Systems Analysis & API Tooling Suite
Python-based CLI suite for pipeline orchestration: 8-dimension scoring rubric, campaign management, and YAML-driven state machine. Automates intake, research, and synthesis tasks, translating deep technical evidence into scannable storefront materials for developers and AI agents.

Portfolio — Performance-Grade Documentation Site
Astro 5 site governed by a CI/CD "quality ratchet" that enforces strict validation and testing standards. Represents the scannable "Storefront" for 42 published essays (~142K words) documenting the frontier of connected intelligence.

EXPERIENCE

Independent Software Engineer & API Platform Architect
2020 — Present

- **Infrastructure Reliability:** Built a corpus of 2,349+ automated tests across 94 active repositories, ensuring technical integrity in complex, cross-organizational developer tooling and API platforms.
- **Golden Path Orchestration:** Designed CLI pipeline tools using Python and YAML schema validation; optimized for removing friction in complex research and API orchestration workflows.
- **AI-Native Automation:** Developed multi-agent frameworks using the Claude Agent SDK featuring structured tool invocation and self-correction protocols for autonomous engineering.
- **Governance at Scale:** Orchestrated 128 GitHub Actions workflows built on 18 reusable templates to maintain production reliability and minimize architectural friction across 8 independent organizations.

Instructor — Composition, Writing & Complex Systems
2015 — Present

Miami Dade College, Keiser University, Nova Southeastern, FAU, Young Harris, Tarrant County, Broward, Palm Beach State

- 100+ courses across 8 institutions; 2,000+ students. Translating complex technical and architectural requirements into accessible documentation and mentoring junior developers in technical rigor.

Digital Marketing Manager & Narrative Strategist
2023 — 2024

Miami Dade College Foundation (nonprofit)

- Architected foundation website overhaul and campaign design, utilizing data analysis to drive a 32% increase in donor engagement through technical execution.

Multimedia Specialist
2011 — 2020

AJP Media Arts — clients incl. Boca Ballet Theatre, Forward Funding, Arts in Boca

- Produced high-volume visual and narrative campaigns; generated 17.5M+ views through technical and creative orchestration.

EDUCATION **M.F.A. Creative Writing**, Florida Atlantic University   2015 — 2018
B.A. English Literature, CUNY College of Staten Island   2010 — 2014

CERTIFICATIONS Full-Stack Developer, Meta (2024) · UX Design, Google (2023) · Digital Marketing, Google (2023) · Project Management, Google (2023)