

Anthony James Padavano

STAFF + SOFTWARE ENGINEER (AI RELIABILITY & OBSERVABILITY)

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LINKS

[Portfolio](#) · [GitHub](#) · [agentic-titan](#) · [ORGANVM System](#)

PROFILE

Independent software engineer and systems architect building production-grade infrastructure, distributed systems, and cross-cutting observability tools. 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 resilient serving paths for agentic and model-driven workloads, utilizing an "AI-conductor" methodology to ensure technical integrity and systemic uptime at institutional scale. Expert in incident response, chaos engineering, and building high-availability foundations for society's most critical AI services. Full-Stack Developer (Meta). 18 years professional experience. MFA Creative Writing. LGBTQ+.

TECHNICAL SKILLS

Distributed Systems · Systems Reliability · Kubernetes · Python · Go · Observability · Prometheus · Grafana · GitHub Actions · CI/CD · Claude Agent SDK · Zod · pytest · Vitest · YAML/JSON Schema · Node.js · Docker · Git · GCP / Terraform · WebSocket · Redis · Nginx · D3.js · p5.js

SELECTED PROJECTS

ORGANVM Eight-Organ System — 103-Repository Reliability Infrastructure

A unified technical corpus encompassing 21K code files and 3.6K tests. Governed by a formal promotion state machine and automated dependency validation. Features 128 GitHub Actions workflows built on 18 reusable templates. A live demonstration of how institutional-scale systems reliability can be orchestrated by a solo practitioner.

Application Pipeline — Systems Analysis & Observability 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 telemetry.

agentic-titan — Multi-Agent Orchestration & CLI 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 resilience testing.

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 workflows.

Portfolio — Performance-Grade Monitoring Interface

Astro 5 site governed by a CI/CD "quality ratchet" that enforces strict validation and testing standards. Represents the scannable "Storefront" for deep systemic infrastructure work and real-time reliability reporting.

EXPERIENCE

Independent Software Engineer & Reliability 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 distributed systems.
- **AI-Native Automation:** Developed multi-agent frameworks using the Claude Agent SDK featuring structured tool invocation and self-correction protocols for autonomous engineering.
- **Systems Governance:** Orchestrated 128 GitHub Actions workflows built on 18 reusable templates to maintain production reliability and minimize architectural friction across 8 independent organizations.
- **Golden Path Orchestration:** Designed CLI pipeline tools using Python and YAML schema validation; optimized for managing high-volume data and complex state transitions.

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 concepts 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

C E R T I F I C A T I O N S Full-Stack Developer, Meta (2024) · UX Design, Google (2023) · Digital Marketing, Google (2023) · Project Management, Google (2023)