

Anthony James Padavano

SOFTWARE ENGINEER (DEVELOPER TOOLS & PRODUCTIVITY)

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LINKS

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

PROFILE

Independent engineer building production-grade CLI tools, systems infrastructure, and multi-agent orchestration frameworks in TypeScript and Go. Architect of a 103-repository system governed by automated validation, 94 CI/CD pipelines, and 2,349+ tests. Specialist in removing workflow friction and bridging the gap between agentic model capabilities and reliable engineering infrastructure through an "AI-conductor" methodology. Focused on correctness, systemic reliability, and building self-service platforms that engineers can trust. Full-Stack Developer (Meta). 18 years professional experience. MFA Creative Writing. 11 years college instruction. LGBTQ+.

TECHNICAL SKILLS

TypeScript · Go · CLI Tooling · GitHub Actions · CI/CD · Kubernetes · Node.js · Docker · Git · Zod · pytest · Vitest · YAML/JSON Schema · React 18 · Express · pnpm Monorepos · GCP / Terraform · WebSocket · Redis · Nginx · D3.js · p5.js

SELECTED PROJECTS

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, 0 violations). Features 128 GitHub Actions workflows built on 18 reusable templates. A live demonstration of "solo production at institutional scale."

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 parallel execution.

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 production engineering environments.

Application Pipeline — Systems Analysis 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 via a shared library of infrastructure scripts.

Classroom RPG Aetheria — AI-Native Learning Environment

Gamified education platform featuring dynamic AI quest generation. Hardened for production with XSS mitigation (DOMPurify), robust failure handling with exponential backoff, and 100% pass rate across 45+ unit tests (Vitest).

EXPERIENCE

Independent Software Engineer & Developer Tools Architect

2020 — Present

- Infrastructure Reliability:** Built a corpus of 2,349+ tests across 94 active repositories, ensuring correctness in complex, cross-organizational developer tooling.
- Golden Path Workflows:** Designed CLI pipeline tools using Python and YAML schema validation; optimized for removing friction in complex research and synthesis workflows.
- 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 using 18 reusable templates to maintain production reliability across 8 independent organizations.

Instructor — 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 architectural requirements into accessible documentation and mentoring junior developers in technical rigor.

Digital Marketing Manager

2023 — 2024

Miami Dade College Foundation (nonprofit)

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

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 and \$2M in fundraising through technical and creative production.

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)