

Anthony James Padavano

SOFTWARE ENGINEER (BENEFICIAL DEPLOYMENTS & SOCIAL IMPACT)

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LINKS

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

PROFILE

Independent software engineer and veteran educator (11 years, 2,000 students) building production-grade full-stack infrastructure and accessible AI-native platforms. 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 mission-critical onboarding and verification systems for underserved communities and resource-constrained nonprofits. Expert in "solo production at institutional scale," utilizing an "AI-conductor" methodology to maintain technical integrity while building scannable, delightful interfaces that empower users globally. Full-Stack Developer (Meta). 18 years professional experience. MFA Creative Writing. LGBTQ+.

TECHNICAL SKILLS

TypeScript · React 18 · Python · Node.js · Next.js · REST APIs · Identity Management · Billing Systems · Accessibility · Internationalization · CLI Tooling · GitHub Actions · CI/CD · Zod · pytest · Vitest · YAML/JSON Schema · Docker · Git · pnpm Monorepos · GCP / Terraform · WebSocket · Redis · Nginx

SELECTED PROJECTS

Application Pipeline — Systems Analysis & Social Impact Suite

Full-stack suite for pipeline orchestration: React frontend, Python CLI tools, Greenhouse API integration, and YAML-driven state machine. Automates complex research and synthesis tasks, translating deep technical evidence into scannable storefront materials for mission-driven organizations.

Classroom RPG Aetheria — AI-Native Learning Environment

Gamified education platform featuring dynamic AI quest generation. Hardened for production with XSS mitigation, robust failure handling, and 100% pass rate across unit tests. A prototype for making complex AI integrations accessible and resilient for diverse student populations.

ORGANVM Eight-Organ System — 103-Repository Developer 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 full-stack foundations can be orchestrated by a solo practitioner.

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 accessible developer abstractions.

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 technical essays documented as part of the public process.

EXPERIENCE

Independent Software Engineer & Education Platform Architect

2020 — Present

- **Infrastructure Reliability:** Built a corpus of 2,349+ automated tests across 94 active repositories, ensuring correctness in complex, cross-organizational developer tooling and social impact platforms.
- **Full-Stack Orchestration:** Designed a 103-repository system governed by automated validation and 94 CI/CD pipelines; treating institutional-scale product foundations as a solo exercise in technical vision.
- **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 incident friction across 8 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 and digital strategy.

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 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)