

Anthony James Padavano

SOFTWARE ENGINEER, FULL-STACK (DEVELOPER EXPERIENCE)

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LINKS

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

PROFILE

Independent engineer building production-grade infrastructure, internal developer platforms, and multi-agent orchestration systems in TypeScript and React. Architect of a 103-repository ecosystem governed by automated validation, 94 CI/CD pipelines, and 2,349+ tests. Specialist in architecting "Agent-Human Hybrid" workflows and bridging the gap between frontier model capabilities and reliable engineering infrastructure through an "AI-conductor" methodology. Focused on correctness, systemic reliability, and building the "operating system" for seamless human-agent collaboration at institutional scale. Full-Stack Developer (Meta). 18 years professional experience. LGBTQ+.

TECHNICAL SKILLS

TypeScript · React 18 · Node.js · Next.js · CLI Tooling · GitHub Actions · CI/CD · Claude Agent SDK · Zod · pytest · Vitest · YAML/JSON Schema · Docker · Git · pnpm Monorepos · Python · 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. Features 128 GitHub Actions workflows built on 18 reusable templates. A live demonstration of "Agent-Human Hybrid" production at institutional scale.

agentic-titan — Multi-Agent Orchestration & CLI Framework

TypeScript framework for orchestrating complex, multi-step engineering tasks across autonomous agent swarms. Includes 18 development phases and 1,276 tests. Engineered for high-reliability tool invocation, task decomposition, and parallel context processing.

agent--claude-smith — Claude Agent SDK Reliability Layer

Advanced agent implementation built on the Claude Agent SDK. Features session persistence, self-correction hooks, and structured tool invocation designed to navigate and interpret complex, multi-repo knowledge bases.

Application Pipeline — Systems Analysis Tooling Suite

Python-based CLI suite for pipeline orchestration: 8-dimension scoring rubric and YAML-driven state machine. Automates intake, research, and synthesis tasks, translating deep technical evidence into scannable storefront materials.

Classroom RPG Aetheria — AI-Native Learning Environment

Gamified education platform prototype featuring dynamic AI quest generation. Hardened for production with XSS mitigation and robust failure handling. An exploration of making complex AI integrations resilient and human-centric.

EXPERIENCE

Independent Software Engineer & DevEx Architect

2020 — Present

- **AI-Native SDLC:** Designed a 103-repository system governed by automated validation and 94 CI/CD pipelines — human directs intent, AI generates volume, human reviews for correctness.
- **Infrastructure Reliability:** Built a corpus of 2,349+ tests across 94 active repositories, ensuring correctness in complex, cross-organizational developer tooling and agentic systems.
- **LLM System Integration:** 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 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 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 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)