

# **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 system 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 high-performance UI/UX solutions for complex engineering environments. 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 · GCP / Terraform · AWS · 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 complex engineering workflows.

### **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).

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## EXPERIENCE

### **Independent Software Engineer & DevEx Architect**

2020 – Present

- **Infrastructure Reliability:** Built a corpus of 2,349+ tests across 94 active repositories, ensuring correctness in complex, cross-organizational internal developer tooling.
- **Agent-Human Hybrid Workflows:** Designed CLI pipeline tools using Python and YAML schema validation; optimized for seamless collaboration between human intent and AI-generated volume.
- **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 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 and \$2M in fundraising through technical and creative production.

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## EDUCATION

### **M.F.A. Creative Writing**, Florida Atlantic University

2015 – 2018

### **B.A. English Literature**, CUNY College of Staten Island

2010 – 2014

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## CERTIFICATIONS

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