

# Anthony James Padavano

FORWARD DEPLOYED ENGINEER (AGENTIC PLATFORMS & RAG)

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| LINKS             | Portfolio · <a href="#">GitHub</a> · <a href="#">agentic-titan</a> · <a href="#">ORGANVM System</a>  |  |
| PROFILE           | Independent software engineer and systems architect building production-grade AI orchestration and RAG-ready infrastructure. 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 bridging the gap between frontier LLM capabilities and reliable enterprise deployment for the North American market. Expert in "solo production at institutional scale," utilizing an "AI-conductor" methodology to maintain deep, recursive systemic architectures while ensuring high-signal entry points for partners. Full-Stack Developer (Meta). 18 years professional experience. MFA Creative Writing. LGBTQ+.   |  |
| TECHNICAL SKILLS  | TypeScript · Python · AI Orchestration · RAG Infrastructure · CLI Tooling · GitHub Actions · CI/CD · Zod · pytest · Vitest · Claude Agent SDK · YAML/JSON Schema · Node.js · Docker · Git · React 18 · Express · pnpm Monorepos · GCP / Terraform · WebSocket · Redis · Nginx · D3.js · p5.js  |  |
| SELECTED PROJECTS | <b>agentic-titan — Multi-Agent Orchestration &amp; CLI Framework</b><br>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 seamless integration with agentic platforms and data layers.   |  |
|                   | <b>ORGANVM Eight-Organ System — 103-Repository AI Infrastructure</b><br>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 "solo production at institutional scale" and complex system orchestration.  |  |
|                   | <b>agent--claude-smith — Claude Agent SDK Reliability Layer</b><br>Advanced agent implementation built on Claude Agent SDK. Features session persistence, self-correction hooks, and structured tool invocation designed to ground AI reasoning in real-world data and production workflows.   |  |
|                   | <b>Application Pipeline — Systems Analysis Tooling Suite</b><br>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 materials for enterprise advocacy.   |  |
|                   | <b>Classroom RPG Aetheria — AI-Native Learning Environment</b><br>Gamified education platform prototype featuring dynamic AI quest generation. Hardened for production with XSS mitigation, robust failure handling, and 100% pass rate across unit tests. An exploration of making complex AI integrations resilient and human-centric.   |  |
| EXPERIENCE        | <b>Independent Software Engineer &amp; Systems Architect</b> 2020 — Present <ul style="list-style-type: none"><li><b>Infrastructure Reliability:</b> Built a corpus of 2,349+ tests across 94 active repositories, ensuring technical integrity in complex, cross-organizational developer tooling and agentic systems.</li><li><b>Agentic Deployment:</b> Documented "AI-conductor" methodology across 42 published essays (~142K words), exploring the intersection of model capabilities and engineering safeguards for enterprise environments.</li><li><b>AI-Native Automation:</b> Developed multi-agent frameworks using the Claude Agent SDK featuring structured tool invocation and self-correction protocols for autonomous engineering.</li><li><b>Governance at Scale:</b> Orchestrated 128 GitHub Actions workflows built on 18 reusable templates to sustain institutional-scale production as a solo practitioner.</li></ul> |  |
|                   | <b>Instructor — Composition, Writing &amp; Complex Systems</b> 2015 — Present<br><i>Miami Dade College, Keiser University, Nova Southeastern, FAU, Young Harris, Tarrant County, Broward, Palm Beach State</i> <ul style="list-style-type: none"><li>100+ courses across 8 institutions; 2,000+ students. Translating complex architectural requirements into accessible narratives and mentoring junior developers in technical rigor.</li></ul>  |  |
|                   | <b>Digital Marketing Manager &amp; Narrative Strategist</b> 2023 — 2024<br><i>Miami Dade College Foundation (nonprofit)</i> <ul style="list-style-type: none"><li>Architected foundation website overhaul and campaign design, utilizing data analysis to drive a 32% increase in donor engagement through technical execution.</li></ul>  |  |
|                   | <b>Multimedia Specialist</b> 2011 — 2020<br><i>AJP Media Arts — clients incl. Boca Ballet Theatre, Forward Funding, Arts in Boca</i> <ul style="list-style-type: none"><li>Produced high-volume visual and narrative campaigns; generated 17.5M+ views through the intersection of technical production and storytelling.</li></ul>  |  |
|                   | <b>M.F.A. Creative Writing</b> , Florida Atlantic University 2015 — 2018<br><b>B.A. English Literature</b> , 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)