

Anthony James Padavano

STAFF SOFTWARE ENGINEER (DEVELOPER EXPERIENCE)

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LINKS	Portfolio · GitHub · agentic-titan · ORGANVM System	
PROFILE	Independent engineer building production-grade infrastructure, developer tooling, and AI orchestration systems in TypeScript and Python. Architect of a 103-repository system governed by automated dependency validation, 94 CI/CD pipelines, and 2,349+ tests. Specialist in architecting "golden path" workflows and bridging the gap between agentic model capabilities and reliable engineering infrastructure through an "AI-conductor" methodology. Focused on correctness, systemic reliability, and scaling platforms for high-intensity EPD environments. Full-Stack Developer (Meta). 18 years professional experience. LGBTQ+.	
TECHNICAL SKILLS	TypeScript · Python · CLI Tooling · GitHub Actions · CI/CD · Node.js · Docker · Kubernetes · Git · Zod · pytest · Vitest · Claude Agent SDK · YAML/JSON Schema · React 18 · Express · pnpm Monorepos · GCP / Terraform · AWS · WebSocket · Redis · Nginx	
SELECTED PROJECTS	<p>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 (LOCAL → CANDIDATE → PUBLIC → GRADUATED) 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."</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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).</p>	
EXPERIENCE	<p>Independent Software Engineer & Platform Architect 2020 — Present</p> <ul style="list-style-type: none">Infrastructure Reliability: Built a corpus of 2,349+ tests across 94 active repositories, ensuring correctness in complex, cross-organizational developer tooling.Golden Path Orchestration: 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 (agentic-titan, 1,276 tests) featuring structured tool invocation and self-correction protocols.Governance at Scale: Orchestrated 128 GitHub Actions workflows using 18 reusable templates to maintain production reliability across 8 independent organizations. <p>Instructor — Writing & Complex Systems 2015 — Present <i>Miami Dade College, Keiser University, Nova Southeastern, FAU, Young Harris, Tarrant County, Broward, Palm Beach State</i></p> <ul style="list-style-type: none">100+ courses across 8 institutions; 2,000+ students. Translating complex architectural requirements into accessible documentation and mentoring junior developers in technical rigor. <p>Digital Marketing Manager 2023 — 2024 <i>Miami Dade College Foundation (nonprofit)</i></p> <ul style="list-style-type: none">Architected and led foundation website overhaul and campaign design, utilizing data analysis to drive a 32% increase in donor engagement. <p>Multimedia Specialist 2011 — 2020 <i>AJP Media Arts — clients incl. Boca Ballet Theatre, Forward Funding, Arts in Boca</i></p> <ul style="list-style-type: none">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)	