

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). | |
| EXPERIENCE | Independent Software Engineer & DevEx Architect | 2020 — Present |
| | <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 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 |
| | <i>Miami Dade College, Keiser University, Nova Southeastern, FAU, Young Harris, Tarrant County, Broward, Palm Beach State</i> <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. | |
| | Digital Marketing Manager | 2023 — 2024 |
| | <i>Miami Dade College Foundation (nonprofit)</i> <ul style="list-style-type: none">Architected foundation website overhaul and campaign design, utilizing data analysis to drive a 32% increase in donor engagement. | |
| | Multimedia Specialist | 2011 — 2020 |
| | <i>AJP Media Arts — clients incl. Boca Ballet Theatre, Forward Funding, Arts in Boca</i> <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) | |