

# Anthony James Padavano

## SOFTWARE ENGINEER (DEVELOPER TOOLS & PRODUCTIVITY)

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| LINKS             | <a href="#">Portfolio</a> · <a href="#">GitHub</a> · <a href="#">agentic-titan</a> · <a href="#">ORGANVM System</a>   |  |
| PROFILE           | Independent engineer building production-grade CLI tools, systems infrastructure, and multi-agent orchestration frameworks in TypeScript and Go. Architect of a 103-repository system governed by automated validation, 94 CI/CD pipelines, and 2,349+ tests. Specialist in removing workflow friction and bridging the gap between agentic model capabilities and reliable engineering infrastructure through an "AI-conductor" methodology. Focused on correctness, systemic reliability, and building self-service platforms that engineers can trust. Full-Stack Developer (Meta). 18 years professional experience. MFA Creative Writing. 11 years college instruction. LGBTQ+.  |  |
| TECHNICAL SKILLS  | TypeScript · Go · CLI Tooling · GitHub Actions · CI/CD · Kubernetes · Node.js · Docker · Git · Zod · pytest · Vitest · YAML/JSON Schema · React 18 · Express · pnpm Monorepos · GCP / Terraform · WebSocket · Redis · Nginx · D3.js · p5.js   |  |
| SELECTED PROJECTS | <b>ORGANVM Eight-Organ System — 103-Repository Developer Infrastructure</b><br>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."   |  |
|                   | <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 parallel execution.   |  |
|                   | <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 understand and mitigate model capability gaps in production engineering environments.   |  |
|                   | <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 via a shared library of infrastructure scripts.  |  |
|                   | <b>Classroom RPG Aetheria — AI-Native Learning Environment</b><br>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        | <b>Independent Software Engineer &amp; Developer Tools 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 correctness in complex, cross-organizational developer tooling.</li><li><b>Golden Path Workflows:</b> Designed CLI pipeline tools using Python and YAML schema validation; optimized for removing friction in complex research and synthesis workflows.</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>Systems Governance:</b> Orchestrated 128 GitHub Actions workflows using 18 reusable templates to maintain production reliability across 8 independent organizations.</li></ul> |  |
|                   | <b>Instructor — 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 documentation and mentoring junior developers in technical rigor.</li></ul>   |  |
|                   | <b>Digital Marketing Manager</b> 2023 — 2024<br><i>Miami Dade College Foundation (nonprofit)</i> <ul style="list-style-type: none"><li>Architected and led foundation website overhaul and campaign design, utilizing data analysis to drive a 32% increase in donor engagement.</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 and \$2M in fundraising through technical and creative production.</li></ul>   |  |
|                   | <b>EDUCATION</b><br><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)   |  |