

# Anthony James Padavano

STAFF+ SOFTWARE ENGINEER (SYSTEMS & INFRASTRUCTURE)

New York City | 561-602-7300 | padavano.anthony@gmail.com

|                   |   |  |
|-------------------|---|--|
| 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 infrastructure, distributed systems, and multi-agent orchestration frameworks. 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 setting technical strategy and roadmaps for institutional-scale production, utilizing an "AI-conductor" methodology to ensure systemic reliability and compute uptime. Expert in distributed state management, Infrastructure-as-Code (IaC), and upleveling engineering ecosystems through disciplined architectural vision. Full-Stack Developer (Meta). 18 years professional experience. MFA Creative Writing. LGBTQ+.   |  |
| TECHNICAL SKILLS  | Distributed Systems · Systems Architecture · Kubernetes · Python · Go · Infrastructure as Code · CI/CD · GitHub Actions · Claude Agent SDK · Zod · pytest · Vitest · YAML/JSON Schema · Node.js · Docker · Git · pnpm Monorepos · GCP / Terraform · AWS · WebSocket · Redis · Nginx · D3.js · p5.js   |  |
| SELECTED PROJECTS | <b>ORGANVM Eight-Organ System — 103-Repository Systems 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 (43 edges). Features 128 GitHub Actions workflows built on 18 reusable templates. A live demonstration of staff-level systems strategy and orchestration 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 in high-intensity research environments.   |  |
|                   | <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 complex systems engineering workflows.   |  |
|                   | <b>Application Pipeline — Systems Analysis &amp; Strategy 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 roadmaps.  |  |
|                   | <b>Portfolio — Performance-Grade Monitoring Interface</b><br>Astro 5 site governed by a CI/CD "quality ratchet" that enforces strict validation and testing standards. Represents the scannable "Storefront" for deep systemic infrastructure work and architectural strategy.  |  |
| EXPERIENCE        | <b>Independent Software Engineer &amp; Systems Architect</b> 2020 — Present <ul style="list-style-type: none"><li><b>Systems Strategy:</b> Designed a 103-repository system governed by automated validation and 94 CI/CD pipelines; treating institutional-scale orchestration as a solo exercise in technical vision.</li><li><b>Infrastructure Reliability:</b> Built a corpus of 2,349+ automated tests across 94 active repositories, ensuring technical integrity in complex, cross-organizational systems and distributed state.</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 systems engineering.</li><li><b>Operational Excellence:</b> Orchestrated 128 GitHub Actions workflows using 18 reusable templates to maintain production reliability and minimize architectural friction across 8 organizations.</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 technical and architectural concepts into accessible strategic roadmaps 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 strategy.</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 technical and creative orchestration.</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)