

# Anthony James Padavano

## MODEL QUALITY SOFTWARE ENGINEER (CLAUDE CODE)

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

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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 infrastructure, evaluation frameworks, and multi-agent orchestration systems in TypeScript and Python. Architect of a 103-repository system governed by automated validation, 94 CI/CD pipelines, and 2,349+ tests. Specialist in bridging the gap between agentic model capabilities and reliable engineering infrastructure through an "AI-conductor" methodology. Focused on correctness, systemic reliability, and scaling research computing environments. Full-Stack Developer (Meta). 18 years professional experience. MFA Creative Writing. 11 years college instruction, 2,000+ students. LGBTQ+.  |  |
| TECHNICAL SKILLS  | TypeScript · Python · CLI Tooling · GitHub Actions · CI/CD · Claude Agent SDK · pytest · Vitest · YAML/JSON Schema · Node.js · Docker · Git · Zod · ruff · Express · React 18 · pnpm Monorepos · WebSocket · Redis · GCP / Terraform · D3.js · p5.js · Nginx  |  |
| SELECTED PROJECTS | <b>agentic-titan — Multi-Agent Evaluation &amp; Orchestration System</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>ORGANVM System — 103-Repository Automated Infrastructure</b><br>A unified developer environment 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.  |  |
|                   | <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 engineering workflows.   |  |
|                   | <b>Application Pipeline — Systems Analysis Tooling</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>Portfolio — Performance-Focused Static Site</b><br>Astro 5 site with p5.js/D3.js visualization layers. Governed by a CI/CD "quality ratchet" that enforces strict validation and testing standards before deployment.  |  |
| EXPERIENCE        | <b>Independent Software Engineer &amp; Systems Architect</b> 2020 — Present <ul style="list-style-type: none"><li><b>Reliability &amp; Testing:</b> Built a corpus of 2,349+ tests across 94 active repositories, ensuring correctness in complex, cross-organizational infrastructure.</li><li><b>Infrastructure Governance:</b> Designed a 103-repo system with automated dependency graph validation (43 edges) and a formal promotion state machine (LOCAL → CANDIDATE → PUBLIC → GRADUATED).</li><li><b>LLM Eval &amp; Tooling:</b> Developed evaluation patterns for multi-agent systems using the Claude Agent SDK and agentic-titan framework (1,276 tests); focused on structured tool invocation and self-correction.</li><li><b>CI/CD at Scale:</b> Orchestrated 128 GitHub Actions workflows using 18 reusable templates to maintain production reliability across 8 independent organizations.</li></ul> |  |
|                   | <b>Instructor — Composition &amp; Writing</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 systems 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>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)   |  |