

Anthony James Padavano

MODEL QUALITY SOFTWARE ENGINEER (CLAUDE CODE)

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LINKS

[Portfolio](#) · [GitHub](#) · [agentic-titan](#) · [ORGANVM System](#)

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

agentic-titan — Multi-Agent Evaluation & Orchestration System

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.

ORGANVM System — 103-Repository Automated Infrastructure

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.

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

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.

Portfolio — Performance-Focused Static Site

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

Independent Software Engineer & Systems Architect

2020 – Present

- **Reliability & Testing:** Built a corpus of 2,349+ tests across 94 active repositories, ensuring correctness in complex, cross-organizational infrastructure.
- **Infrastructure Governance:** Designed a 103-repo system with automated dependency graph validation (43 edges) and a formal promotion state machine (LOCAL → CANDIDATE → PUBLIC → GRADUATED).
- **LLM Eval & Tooling:** 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.
- **CI/CD at Scale:** Orchestrated 128 GitHub Actions workflows using 18 reusable templates to maintain production reliability across 8 independent organizations.

Instructor — Composition & Writing

2015 – Present

Miami Dade College, Keiser University, Nova Southeastern, FAU, Young Harris, Tarrant County, Broward, Palm Beach State

- 100+ courses across 8 institutions; 2,000+ students. Translating complex systems into accessible documentation and mentoring junior developers in technical rigor.

Digital Marketing Manager

2023 – 2024

Miami Dade College Foundation (nonprofit)

- Led foundation website overhaul and campaign design, utilizing data analysis to drive a 32% increase in donor engagement.

Multimedia Specialist

2011 – 2020

AJP Media Arts — clients incl. Boca Ballet Theatre, Forward Funding, Arts in Boca

- 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)