

Anthony James Padavano

DEVELOPER EXPERIENCE & AI DOCUMENTATION ENGINEER

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LINKS

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

PROFILE

Documentation-first engineer who built 810K+ words of structured technical writing as the governing infrastructure for a 103-repository system across 8 GitHub organizations — CLAUDE.md in every repo, seed.yaml contracts defining every dependency edge, cross-document reading orders, and an annotated manifest with per-file descriptions. Author of 42 published essays translating architectural decisions for non-technical audiences. Builder of CLI developer tools (Python, TypeScript), multi-agent orchestration systems (Claude Agent SDK, agentic-titan with 1,276 tests), and 94 CI/CD pipelines governed by YAML/JSON schemas. 11 years college instruction, 2,000+ students taught clear technical communication. Full-Stack Developer (Meta). 18 years professional experience. MFA Creative Writing. LGBTQ+.

TECHNICAL SKILLS

Python · TypeScript · Claude Agent SDK · YAML/JSON Schema · Git · GitHub Actions · Node.js · CLI Tooling · CI/CD · pytest · ruff · Vitest · Zod · Docker · Astro · React 18 · Express · Vite · pnpm Monorepos · Redis · WebSocket · p5.js · D3.js · GCP / Terraform

SELECTED PROJECTS

ORGANVM Eight-Organ System — Documentation-Governed 103-Repository Infrastructure

810K+ words of structured documentation governing 8 GitHub organizations, 21K code files, 3.6K tests. CLAUDE.md in every repo defines contribution patterns, build commands, and architecture rationale. seed.yaml contracts declare dependency edges and event subscriptions. Cross-document reading order, annotated manifest with per-file descriptions, 42 published essays explaining architectural decisions. 128 GitHub Actions workflows (18 reusable templates). TypeScript + Python.

Application Pipeline — Developer CLI Tooling Suite

Python CLI tools with shared library foundation: 14 independent scripts, Greenhouse API client, 8-dimension scoring rubric, campaign orchestrator, YAML pipeline state machine, submission preflight, batch enrichment, velocity tracking. 191 tests. Every script documented with the "why," not just the "what."

agentic-titan — Multi-Agent Orchestration System

Multi-language framework (Python, Rust, TypeScript adapters): 18 development phases, 1,276 tests. Agent coordination, task decomposition, parallel execution, CLI interface, Redis-backed coordination — complex API surface requiring comprehensive documentation for usability.

Portfolio — Astro 5 Static Site

20 case studies documenting project architecture and decisions. Generative p5.js visual layer, D3.js data visualizations, Pagefind search. CI/CD with quality ratchet governance and policy-as-code validation.

agent--claude-smith — Claude Agent SDK Integration

TypeScript agent built on Claude Agent SDK with session persistence, self-correction hooks, and structured tool invocation. Designed for autonomous multi-step software engineering tasks.

EXPERIENCE

Independent Software Engineer & Developer Tools Builder

2020 — Present

- **Documentation as Infrastructure:** Authored 810K+ words of structured technical writing governing a 103-repository system — CLAUDE.md in every repo, seed.yaml dependency contracts, cross-document reading orders, annotated manifest, 42 published essays for non-technical audiences.
- **Developer Tooling:** CLI pipeline tools (scoring, drafting, submission, campaign orchestration), Greenhouse API integration, YAML schema validation, batch processing — 14 scripts sharing a common library, 191 tests.
- **AI-Conductor Methodology:** Designed documentation-first development process — human directs, AI generates, human reviews — governed by CLAUDE.md files, 32 AI agent definitions, and automated validation.
- **LLM Orchestration:** Multi-agent systems with Claude Agent SDK (agent--claude-smith), agentic-titan framework (1,276 tests across Python/Rust/TypeScript), structured tool invocation and self-correction.
- **CI/CD Infrastructure:** 128 GitHub Actions workflows (18 reusable templates), 94 CI/CD pipelines, automated dependency validation across 8 GitHub 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. Clear technical communication, documentation pedagogy, and mentoring.

Digital Marketing Manager

2023 — 2024

Miami Dade College Foundation (nonprofit)

- Rebuilt foundation website; designed campaigns increasing donor engagement by 32%.

Multimedia Specialist

2011 — 2020

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

- Video, audio, and visual campaigns for nonprofits and arts organizations; 17.5M+ views, \$2M in fundraising.

EDUCATION

M.F.A. Creative Writing, Florida Atlantic University
B.A. English Literature, CUNY College of Staten Island

2015 — 2018

2010 — 2014

CERTIFICATIONS

Full-Stack Developer, Meta (2024) · UX Design, Google (2023) · Digital Marketing, Google (2023) · Project Management, Google (2023)