

Anthony James Padavano

FORWARD-DEPLOYED AI SOLUTIONS ENGINEER

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LINKS

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

PROFILE

AI systems engineer building multi-agent orchestration frameworks, Claude Agent SDK integrations, and customer-facing deployment tooling in TypeScript and Python. Built agent--claude-smith directly on the Claude SDK with session persistence, self-correction hooks, and structured tool invocation; architected agentic-titan, a multi-agent framework tested across 18 development phases with 1,276 tests. Creator and sole architect of a 103-repository governed system across 8 GitHub organizations — 21K code files, 3.6K tests, 94 CI/CD pipelines, 32 AI agent definitions. 11 years teaching complex technical subjects to 2,000+ students across 8 institutions, translating abstract systems into clear documentation and stakeholder communication. Full-Stack Developer (Meta). 18 years professional experience. MFA Creative Writing. LGBTQ+.

TECHNICAL SKILLS

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

SELECTED PROJECTS

agent--claude-smith — Claude Agent SDK Integration

TypeScript multi-agent system built directly on the Claude Agent SDK with session persistence, self-correction hooks, 1Password secrets management, and Zod schema validation. Structured tool invocation for autonomous multi-step software engineering tasks. Designed for the kind of custom agent deployment enterprise clients require.

agentic-titan — Multi-Agent Orchestration Framework

TypeScript multi-agent framework: 18 development phases, 1,276 tests. Agent coordination, task decomposition, message passing, fault tolerance, and parallel execution patterns. Structured for extensibility and reliable production deployment.

Application Pipeline — End-to-End Workflow Automation

Python CLI tooling suite automating a full conversion pipeline: Greenhouse API client, ATS submission modules (Lever, Ashby), 8-dimension scoring rubric, campaign orchestrator, YAML state machine, resume tailoring, answer generation, submission preflight, batch enrichment, velocity tracking. 14 independent scripts sharing a common library.

ORGANVM Eight-Organ System — 103-Repository Governed Infrastructure

8 GitHub organizations, 21K code files, 3.6K tests, 94 CI/CD pipelines. CLAUDE.md governance in every repo. 32 AI agent definitions. 128 GitHub Actions workflows (18 reusable templates). Automated dependency validation, promotion state machine (LOCAL → CANDIDATE → PUBLIC → GRADUATED), cross-org coordination. TypeScript + Python.

Portfolio — Astro 5 Static Site

Generative p5.js visual layer, D3.js data visualizations, Pagefind search, 20 case studies. CI/CD with quality ratchet governance.

EXPERIENCE

Independent Software Engineer & AI Systems Builder

2020 — Present

- **LLM Orchestration:** Multi-agent systems with Claude Agent SDK (agent--claude-smith: session persistence, self-correction, structured tool invocation), agentic-titan framework (1,276 tests across 18 phases), agent coordination and fault tolerance patterns.
- **Developer Tooling:** CLI pipeline tools (scoring, drafting, submission, campaign orchestration), Greenhouse API integration, ATS submission modules, YAML schema validation, resume tailoring, batch processing — repeatable deployment patterns codified as reusable infrastructure.
- **AI-Conductor Methodology:** Designed 103-repository system governed by CLAUDE.md files, AI agent definitions, and automated validation — governance-rules.json encodes constitutional constraints enforced on every merge without human vigilance.
- **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. Translating complex systems into clear technical communication, stakeholder documentation, and structured mentoring — the customer-facing skillset enterprise deployments require.

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.

E D U C A T I O N	M.F.A. Creative Writing , Florida Atlantic University	2015 — 2018
	B.A. English Literature , CUNY College of Staten Island	2010 — 2014

C E R T I F I C A T I O N S	Full-Stack Developer, Meta (2024) · UX Design, Google (2023) · Digital Marketing, Google (2023) · Project Management, Google (2023)
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