

Anthony James Padavano

SOFTWARE ENGINEER, AGENT SDK & ORCHESTRATION

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LINKS

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

PROFILE

Software engineer building multi-agent orchestration systems, SDK integrations, and autonomous engineering tools in TypeScript and Python. Creator of agent--claude-smith (Claude Agent SDK with session persistence and self-correction) and agentic-titan (1,276 tests, 18 development phases). Architect of a 103-repository system governed by 32 AI agent definitions, CLAUDE.md files, and automated validation across 8 GitHub organizations. Practitioner of an AI-conductor methodology: human directs, AI generates, human reviews. Full-Stack Developer (Meta). 18 years professional experience. LGBTQ+.

TECHNICAL SKILLS

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

SELECTED PROJECTS

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 with reliable error recovery and context management.

agentic-titan — Multi-Agent Orchestration System

TypeScript multi-agent framework: 18 development phases, 1,276 tests. Agent coordination, task decomposition, parallel execution, and structured tool invocation patterns. Engineered for high-reliability autonomous workflows.

ORGANVM Eight-Organ System — 103-Repository Infrastructure

8 GitHub organizations, 21K code files, 3.6K tests. 32 AI agent definitions with CLAUDE.md governance in every repo. Automated dependency validation (43 edges, 0 violations), promotion state machine, and cross-org coordination.

Application Pipeline — CLI Tooling Suite

Python CLI tools: Greenhouse API client, 8-dimension scoring rubric, campaign orchestrator, YAML pipeline state machine, submission preflight, batch enrichment. 14 scripts sharing a common library.

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 & Agent Systems Builder

2020 — Present

- **LLM Agent Orchestration:** Built multi-agent systems with Claude Agent SDK (agent--claude-smith) and agentic-titan framework (1,276 tests) — session persistence, self-correction hooks, structured tool invocation, task decomposition.
- **AI-Conductor Methodology:** Designed 103-repository system governed by 32 AI agent definitions and CLAUDE.md files — human directs, AI generates, human reviews.
- **Developer Tooling:** CLI pipeline tools (scoring, drafting, submission, campaign orchestration), Greenhouse API integration, YAML schema validation, batch processing.
- **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, 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

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)