

# **Anthony James Padavano**

FULL-STACK APPLIED AI SYSTEMS ENGINEER

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## LINKS

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

## PROFILE

Applied AI engineer building multi-agent orchestration systems, LLM-integrated pipelines, and full-stack infrastructure in TypeScript and Python. Creator of agentic-titan (1,095 tests, 18 development phases) — a multi-agent framework for structured task delegation, error recovery, and result synthesis. Built agent--claude-smith on the Claude Agent SDK with session persistence and self-correction hooks. Sole architect of a 103-repository system across 8 GitHub organizations — 21K code files, 3.6K tests, 94 CI/CD pipelines, governed by CLAUDE.md files and 32 AI agent definitions. Practitioner of an AI-conductor methodology where human intelligence directs AI-generated volume through structured review. Full-Stack Developer (Meta). 18 years professional experience. MFA Creative Writing, 11 years college instruction, 2,000+ students. LGBTQ+.

## TECHNICAL SKILLS

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

## SELECTED PROJECTS

### **agentic-titan — Multi-Agent Orchestration Framework**

TypeScript multi-agent framework: 18 development phases, 1,276 tests. Agent coordination, task decomposition, parallel execution, error recovery, and result synthesis. Treats AI as a system of collaborating agents that must be orchestrated, monitored, and gracefully degraded. Structured for extensibility and reliability.

### **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 recoverable failure handling.

### **Application Pipeline — AI-Integrated CLI Tooling Suite**

14-script Python CLI system orchestrating LLM-assisted research, identity mapping, content synthesis, and API submission. YAML pipeline state machine, Greenhouse and Ashby API clients, 8-dimension scoring rubric, campaign orchestrator, batch enrichment, velocity tracking. AI outputs as structured inputs to downstream pipeline stages with validation and audit logging.

### **ORGANVM Eight-Organ System — 103-Repository Developer 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 & Applied AI Systems Builder**

2020 – Present

- **LLM Orchestration:** Multi-agent systems with Claude Agent SDK (agent--claude-smith), agentic-titan framework (1,276 tests), structured tool invocation and self-correction.
- **AI-Conductor Methodology:** Designed 103-repository system governed by CLAUDE.md files, AI agent definitions, and automated validation — 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)