Anthony James Padavano

DEVELOPER EXPERIENCE & KNOWLEDGE INFRASTRUCTURE ENGINEER

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LINKS

Portfolio · GitHub · agentic-titan · ORGANVM System

PROFILE

Developer experience engineer who designs documentation-first systems, API integrations, and schema-driven governance infrastructure. Creator and sole architect of a 103-repository knowledge architecture across 8 GitHub organizations — every repo governed by a CLAUDE.md developer onboarding contract, seed.yaml metadata schema, and validated dependency edges (43 edges, zero circular dependencies). Built a Greenhouse API client, YAML schema validation pipelines, and 14 composable CLI tools sharing a common library. Full-Stack Developer (Meta). TypeScript strict mode, Python with type hints, structured documentation spanning 810K+ words across 103 repos with 100% coverage verified by automated checks. 18 years professional experience. MFA Creative Writing. 11 years college instruction, 2,000+ students. LGBTQ+.

TECHNICAL SKILLS

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

SELECTED PROJECTS

ORGANVM Eight-Organ System — 103-Repository Knowledge Architecture

8 GitHub organizations with API-like governance contracts: every repo declares a seed.yaml metadata schema (organ membership, dependency edges, event subscriptions) and a CLAUDE.md developer onboarding document. Single-source registry-v2.json tracks all 103 repos. 43 validated dependency edges with zero circular dependencies. Automated schema validation, promotion state machine (LOCAL → CANDIDATE → PUBLIC → GRADUATED), 810K+ words of structured documentation at 100% repo coverage. TypeScript + Python.

Application Pipeline — API Integration & Schema Validation CLI Suite

14 Python CLI tools sharing a common library: Greenhouse API client for job board form submission, YAML pipeline state machine with schema validation, 8-dimension scoring rubric, campaign orchestrator, submission preflight checks, batch enrichment, velocity tracking. Structured input/output formats, consistent CLI interfaces, documentation-as-code methodology.

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 well-defined developer interfaces.

agentic-titan — Multi-Agent Orchestration System

TypeScript multi-agent framework: 18 development phases, 1,276 tests. Agent coordination, task decomposition, and parallel execution patterns. Structured for extensibility and reliability.

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 & Developer Tools Builder
2020 — Present

- **Developer Tooling & API Integration:** CLI pipeline tools (scoring, drafting, submission, campaign orchestration), Greenhouse API client for job board form submission, YAML schema validation, batch processing with structured output formats. 14 composable scripts sharing a common library.
- **CI/CD Infrastructure & Schema Governance:** 128 GitHub Actions workflows (18 reusable templates), 94 CI/CD pipelines, automated dependency validation across 8 GitHub organizations. seed.yaml metadata contracts and registry-v2.json as single source of truth.
- **Documentation-First Architecture:** Designed 103-repository system governed by CLAUDE.md developer onboarding documents, seed.yaml schema contracts, and automated validation — 810K+ words, 100% repo coverage, verified by automated checks.
- **LLM Orchestration:** Multi-agent systems with Claude Agent SDK (agent--claude-smith), agentic-titan framework (1,276 tests), structured tool invocation and self-correction.

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)