Anthony James Padavano

CREATIVE AI SYSTEMS & RESEARCH INFRASTRUCTURE ENGINEER

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LINKS

Portfolio · GitHub · agentic-titan · ORGANVM System

PROFILE

Systems engineer building creative technology infrastructure — generative art with p5.js, multi-agent AI orchestration, and large-scale developer tooling in Python and TypeScript. Creator and sole architect of a 103-repository system across 8 GitHub organizations: 21K code files, 3.6K tests, 94 CI/CD pipelines, bridging generative art and interactive narrative with the governance and orchestration infrastructure that makes creative work possible at scale. Practitioner of an AI-conductor methodology where human intelligence directs AI-generated volume through structured review. Full-Stack Developer (Meta). MFA Creative Writing. 18 years professional experience. LGBTQ+.

TECHNICAL SKILLS

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

SELECTED PROJECTS

Portfolio — Generative Creative Technology Platform
Deployed creative portfolio with generative p5.js canvas rendering (three visual modes: subtle, bold, extreme), D3.js data visualizations, Pagefind search, 20 case studies. Astro 5, 545 tests, CI/CD with quality ratchet governance. Full-stack creative coding bridging interactive art and production engineering.

agentic-titan — Multi-Agent Orchestration System
Research-grade orchestration framework: 1,276 tests, Python/Rust/TypeScript adapters, CLI interface, Redis-backed coordination. Agent task decomposition, parallel execution patterns, and structured extensibility — infrastructure designed for navigability by contributors beyond the original author.

ORGANVM Eight-Organ System — 103-Repository Creative-Technical Infrastructure
8 GitHub organizations spanning generative art, interactive narrative, and experiential design alongside governance and orchestration tooling. 21K code files, 3.6K tests, 94 CI/CD pipelines, 128 GitHub Actions workflows (18 reusable templates). CLAUDE.md governance, 32 AI agent definitions, automated dependency validation, promotion state machine. TypeScript + Python.

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, velocity tracking. 14 independent scripts sharing a common library.

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 & Creative Technology Builder
2020 — Present

- **LLM Orchestration & Research Tooling:** Multi-agent systems with Claude Agent SDK (agent--claude-smith), agentic-titan framework (1,276 tests, Python/Rust/TypeScript adapters, Redis-backed coordination), 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. Creative and research repos share a registry, dependency model, and promotion pipeline.
- **CI/CD & Platform Infrastructure:** 128 GitHub Actions workflows (18 reusable templates), 94 CI/CD pipelines, automated dependency validation across 8 GitHub organizations. Promotion state machine enforcing structured progression.
- **Developer Tooling:** CLI pipeline tools (scoring, drafting, submission, campaign orchestration), Greenhouse API integration, YAML schema validation, batch processing.

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. Creative production bridging technical execution and artistic direction.

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%.

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)