

Anthony James Padavano

APPLIED AI & SYSTEMS ENGINEER

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LINKS

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

PROFILE

Applied AI engineer building data pipelines, validation-heavy automation, and LLM-integrated infrastructure in Python and TypeScript. Creator of a 103-repo system across 8 GitHub orgs — 21K files, 3.6K tests, 94 CI/CD pipelines — with schema validation and quality gates at every stage. AI-conductor methodology: human directs, AI generates volume, human reviews with safety constraints. Full-Stack Developer (Meta). 18 yrs experience. MFA. 2,000+ students. LGBTQ+.

TECHNICAL SKILLS

Python · Data Pipeline Design · Claude API · Claude Agent SDK · LLM Integration · YAML/JSON Schema · Zod · pytest · Vitest · ruff · CLI Tooling · Docker · GitHub Actions · CI/CD · TypeScript · Node.js · Git · GCP / Terraform · Redis · Express · WebSocket

SELECTED PROJECTS

Application Pipeline — Data Pipeline & Validation Engine
Python CLI suite; YAML schema enforcement, 8-dimension scoring rubric, forward-only state machine, preflight checks, batch enrichment. Greenhouse API integration; 14 scripts sharing a validated common library.

ORGANVM Eight-Organ System — 103-Repository Validated Infrastructure
8 GitHub orgs; 21K files, 3.6K tests, 94 CI/CD pipelines. Schema-validated governance enforced on every merge; promotion state machine (LOCAL → GRADUATED) with quality gates. TypeScript + Python.

agentic-titan — Multi-Agent Orchestration Framework
TypeScript multi-agent framework; 18 phases, 1,276 tests. Agent coordination, fault tolerance, task decomposition, parallel execution.

agent--claude-smith — Claude Agent SDK Integration
Claude Agent SDK; session persistence, self-correction, Zod validation, structured tool invocation. Plan-execute-evaluate-refine workflow.

Portfolio — Astro 5 Static Site
Generative p5.js layer, D3.js visualizations, Pagefind search, 20 case studies. Quality ratchet governance validated on every build.

EXPERIENCE

Independent Software Engineer & Applied AI Builder 2020 — Present

- Data Pipelines:** Python CLI with schema-enforced YAML, forward-only state machine, 8-dimension scoring, preflight validation, batch processing with integrity constraints.
- Claude Agent Systems:** agent--claude-smith (Agent SDK; session persistence, self-correction, structured tools) and agentic-titan (1,276 tests, 18 phases) — production LLM deployment patterns.
- Testing & Quality:** 3.6K tests across 103 repos; quality ratchet governance; safety constraints in governance-rules.json enforced via CI/CD.
- CI/CD:** 128 GitHub Actions workflows (18 reusable), 94 pipelines, automated dependency validation across 8 orgs.

Instructor — Composition & Writing 2015 — Present
Miami Dade College, Keiser University, Nova Southeastern, FAU, Young Harris, Tarrant County, Broward, Palm Beach State

- 100+ courses, 8 institutions, 2,000+ students. Curriculum design; structured feedback; clear technical communication.

Digital Marketing Manager 2023 — 2024
Miami Dade College Foundation (nonprofit)

- Rebuilt website; data-driven campaigns increasing donor engagement 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)