

Anthony James Padavano

SENIOR TECHNICAL WRITER (CORE DOCS & SEARCH AI)

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LINKS

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

PROFILE

Independent software engineer and veteran educator (11 years, 2,000 students) building production-grade Search AI documentation and developer infrastructure. Creator and sole architect of a 103-repository ecosystem across 8 GitHub organizations governed by automated validation and ~810K+ words of documentation. Specialist in "Docs as Code" and translating deep "Cathedral" architectures—including RAG, vector search, and NLP workflows—into scannable, lead contributor content for data scientists and engineers. Focused on technical integrity, systemic reliability, and building the "Storefront" layer for frontier search technologies at institutional scale. Full-Stack Developer (Meta). 18 years professional experience. MFA Creative Writing. LGBTQ+.

TECHNICAL SKILLS

Technical Writing · Search AI · Vector Search · RAG · Markdown · GitHub · CI/CD · Python · TypeScript · Node.js · JSON · Zod · pytest · Vitest · YAML/JSON Schema · CLI Tooling · Docker · Git · pnpm Monorepos · GCP / Terraform · WebSocket · Redis · Nginx · D3.js · p5.js

SELECTED PROJECTS

ORGANVM Eight-Organ System — 103-Repository Search AI Infrastructure

A unified technical and narrative corpus encompassing 21K code files and 3.6K tests. Governed by a formal promotion state machine and automated dependency validation. Features 128 GitHub Actions workflows. A live demonstration of how institutional-scale Search AI architecture can be made transparent and scannable through rigorous, automated documentation.

Application Pipeline — Systems Analysis & Documentation Suite

Python-based CLI suite for pipeline orchestration: 8-dimension scoring rubric and YAML-driven state machine. Automates intake, research, and synthesis tasks, translating deep technical evidence into scannable storefront documentation and lead-contributor narratives.

agentic-titan — Multi-Agent Orchestration & CLI Framework

TypeScript framework for orchestrating complex engineering and search tasks across autonomous agents. Includes 18 development phases and 1,276 tests. Engineered for high-reliability tool invocation and transparent task decomposition.

Classroom RPG Aetheria — AI-Native Learning Environment

Gamified education platform prototype featuring dynamic AI quest generation. Hardened for production with robust failure handling and 100% pass rate across unit tests. An exploration of making complex AI integrations resilient and well-documented for practitioners.

Portfolio — Performance-Grade Documentation Site

Astro 5 site governed by a CI/CD "quality ratchet" that enforces strict validation standards. Represents the scannable "Storefront" for 42 published technical essays (~142K words) documenting the frontier of Search AI.

EXPERIENCE

Independent Software Engineer & Technical Writer

2020 — Present

- **Docs as Code Infrastructure:** Designed a 103-repository system governed by automated validation and 94 CI/CD pipelines; maintained a documentation corpus of 810K+ words native to GitHub and Markdown.
- **Search AI Advocacy:** Documented "AI-conductor" methodology across 42 published essays (~142K words), exploring the intersection of model capabilities and engineering rigor for the global developer community.
- **Infrastructure Reliability:** Built a corpus of 2,349+ automated tests across 94 active repositories, ensuring documentation accuracy through technical correctness and automated verification.
- **Technical Storytelling:** Produced high-volume scannable technical content for engineers, translating deep systemic architecture into lead-contributor tutorials and conceptual guides.

Instructor — Composition, Writing & Complex Systems

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. Mentoring students in technical rigor and translating complex technical concepts into accessible pedagogical content.

Digital Marketing Manager & Narrative Strategist

2023 — 2024

Miami Dade College Foundation (nonprofit)

- Architected foundation website overhaul and campaign design, utilizing data analysis to drive a 32% increase in donor engagement.

Multimedia Specialist

2011 — 2020

AJP Media Arts — clients incl. Boca Ballet Theatre, Forward Funding, Arts in Boca

- Produced high-volume visual and narrative campaigns; generated 17.5M+ views through technical and creative production.

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)