

Anthony James Padavano

STAFF DEVELOPER ADVOCATE (AI & AUDIO)

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LINKS

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

PROFILE

Independent engineer and veteran educator (11 years, 2,000 students) building production-grade infrastructure, developer tooling, and multi-agent orchestration systems in TypeScript and Python. Architect of a 103-repository ecosystem governed by automated validation, 94 CI/CD pipelines, and 2,349+ tests. Specialist in translating complex technical work into scannable technical content and "AI-conductor" methodologies for the developer community. Influential voice in the developer experience, focusing on correctness, systemic reliability, and building the "Storefront" layer for frontier technologies like high-performance voice-to-text and audio AI. Full-Stack Developer (Meta). 18 years professional experience. MFA Creative Writing. LGBTQ+.

TECHNICAL SKILLS

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

SELECTED PROJECTS

ORGANVM Eight-Organ System — 103-Repository Developer Infrastructure

A unified technical corpus encompassing 21K code files and 3.6K tests across 8 organizations. Governed by a formal promotion state machine and automated dependency validation (43 edges). Features 128 GitHub Actions workflows built on 18 reusable templates. A live demonstration of "solo production at institutional scale."

agentic-titan — Multi-Agent Orchestration & CLI Framework

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

Classroom RPG Aetheria — AI-Native Learning Environment

Gamified education platform featuring dynamic AI quest generation. Hardened for production with XSS mitigation (DOMPurify), robust failure handling with exponential backoff, and 100% pass rate across 45+ unit tests (Vitest). Built to handle complex AI integration with production-grade reliability.

Application Pipeline — Systems Analysis Tooling Suite

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

Portfolio — Performance-Grade Static Site

Astro 5 site with p5.js visual layers. Governed by a CI/CD "quality ratchet" that enforces strict validation and testing standards. Represents the scannable "Storefront" for 42 published technical essays (~142K words).

EXPERIENCE

Independent Software Engineer & Technical Advocate

2020 — Present

- **Technical Advocacy:** Documented "AI-conductor" methodology across 42 published essays (~142K words), exploring where AI/audio tools excel and where reliability gaps create friction.
- **Infrastructure Reliability:** Built a corpus of 2,349+ tests across 94 active repositories, ensuring correctness in complex, cross-organizational developer tooling and audio-processing pipelines.
- **Community Education:** Simplified complex systemic concepts into ~810K+ words of documentation, fostering adoption of automated governance and agentic workflows.
- **LLM System Integration:** Developed multi-agent frameworks using the Claude Agent SDK featuring structured tool invocation and self-correction protocols.

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. Translating complex architectural requirements into accessible tutorials and mentoring junior developers in technical rigor.

Digital Marketing Manager

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 and \$2M in fundraising 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

C E R T I F I C A T I O N S Full-Stack Developer, Meta (2024) · UX Design, Google (2023) · Digital Marketing, Google (2023) · Project Management, Google (2023)