

# Anthony James Padavano

SENIOR DEVELOPER ADVOCATE (JAVASCRIPT/TYPESCRIPT)

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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 systemic work into scannable technical content and "AI-conductor" methodologies for the JavaScript community. Influential voice in the developer experience, focusing on correctness, systemic reliability, and building the "Storefront" layer for frontier technologies like MongoDB Atlas and Vector Search. Full-Stack Developer (Meta). 18 years professional experience. MFA Creative Writing. LGBTQ+.

## TECHNICAL SKILLS

TypeScript · JavaScript · React 18 · Node.js · Next.js · MongoDB Atlas · Vector Search · CLI Tooling · GitHub Actions · CI/CD · 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).

### 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 via a shared library of infrastructure scripts.

### Portfolio — Performance-Grade Static Site

Astro 5 site with p5.js/D3.js visualization layers. Governed by a CI/CD "quality ratchet" that enforces strict validation and testing standards before deployment. Represents the scannable "Storefront" for deep systemic work.

## EXPERIENCE

### Independent Software Engineer & Developer Advocate

2020 — Present

- JavaScript Advocacy:** Documented "AI-conductor" methodology across 42 published essays (~142K words), exploring where JS/TS 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.
- Community Education:** Simplified complex systemic concepts into ~810K+ words of documentation, fostering adoption of automated governance and AI-native workflows.
- LLM System Integration:** Developed multi-agent frameworks using the Claude Agent SDK featuring structured tool invocation and self-correction protocols.

### Instructor — 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

## CERTIFICATIONS

Full-Stack Developer, Meta (2024) · UX Design, Google (2023) · Digital Marketing, Google (2023) · Project Management, Google (2023)