

# ***Anthony James Padavano***

CREATIVE TECHNOLOGIST & AI SYSTEMS BUILDER

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## LINKS

[Portfolio](#) · [Omni-Dromenon Engine](#) · [ORGANVM System](#) · [GitHub](#)

## PROFILE

Creative technologist building production-grade AI orchestration systems and open-source creative infrastructure. Creator and sole architect of a 103-repository system across 8 GitHub organizations — 21K code files, 3.6K tests, 94 CI/CD pipelines — all designed, tested, and documented using AI tools as compositional instruments. Builder of the Omni-Dromenon Engine, a real-time audience-participatory performance system. Full-Stack Developer (Meta). 18 years professional experience. MFA Creative Writing. 11 years college instruction, 2,000+ students. LGBTQ+.

## TECHNICAL SKILLS

TypeScript · Python · React 18 · Node.js · Express · Socket.io · WebSocket · Claude Agent SDK · Docker · Redis · Nginx · GCP / Terraform · GitHub Actions · CI/CD · Vitest · pytest · Zod · YAML/JSON Schema · OSC · SuperCollider · Max/MSP · WebAudio · p5.js · WebGL · D3.js · Astro · Vite · pnpm Monorepos · Git

## SELECTED PROJECTS

### **ORGANVM Eight-Organ System — 103-Repository Creative Infrastructure**

8 GitHub organizations, 21K code files, 3.6K tests, 94 CI/CD pipelines. Automated dependency validation, promotion state machine, cross-org coordination. CLAUDE.md governance in every repo. 32 AI agent definitions. Single-practitioner production using AI as compositional instrument. TypeScript + Python.

### **Omni-Dromenon Engine — Audience-Participatory Performance System**

TypeScript pnpm monorepo: Express/Socket.io core with three-axis weighted consensus, React 18 performer/audience interfaces, OSC bridge to SuperCollider/Max/MSP, WebAudio synthesis. Five genre presets. 1,000+ concurrent participants, <2ms P95 latency. Docker/Redis/Nginx. Open-source MIT.

### **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.

### **Portfolio — Astro 5 Static Site with Generative Art**

Real-time generative p5.js visual layer, D3.js data visualizations, Pagefind search, CMYK design system. 20 case studies. CI/CD with quality ratchet governance.

## EXPERIENCE

### **Independent Creative Technologist & AI Systems Builder**

2020 — Present

- **AI Orchestration:** 103-repository system with automated governance, 32 AI agent definitions, Claude Agent SDK integration, multi-agent coordination frameworks (agentic-titan: 1,276 tests).
- **Performance Technology:** Omni-Dromenon Engine — audience-participatory infrastructure with consensus algorithms, real-time audio synthesis bridge, genre-specific examples, Docker deployment.
- **Developer Tooling:** CLI pipeline tools (scoring, drafting, submission, campaign orchestration), Greenhouse API integration, YAML schema validation, batch processing.
- **CI/CD Infrastructure:** 128 GitHub Actions workflows (18 reusable templates), 94 CI/CD pipelines, automated dependency validation across 8 GitHub organizations.

### **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. Technical communication, documentation, and systems-thinking pedagogy.

### **Digital Marketing Manager**

2023 — 2024

*Miami Dade College Foundation (nonprofit)*

- Rebuilt foundation website; designed fundraising campaigns increasing donor engagement by 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)