

# Anthony James Padavano

## EXPERIMENTAL TOOLS & COMPUTATIONAL ART BUILDER

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### LINKS

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

### PROFILE

Creative technologist building experimental tools at the intersection of art and computation. Builder of the Omni-Dromenon Engine, a real-time audience-participatory performance system with consensus algorithms, OSC-bridged audio synthesis, and genre-specific generative presets. Creator of a generative art portfolio with real-time p5.js visual layers and D3.js data visualizations. Sole architect of a 103-repository creative infrastructure 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. Full-Stack Developer (Meta). 18 years professional experience. MFA Creative Writing. 11 years college instruction, 2,000+ students. LGBTQ+.

### TECHNICAL SKILLS

p5.js · WebGL · D3.js · WebAudio · SuperCollider · Max/MSP · OSC · 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 · Astro · Vite · pnpm Monorepos · Git

### SELECTED PROJECTS

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

Real-time performance instrument: Express/Socket.io core with three-axis weighted consensus for audience-driven generative composition, React 18 performer/audience interfaces, OSC bridge to SuperCollider/Max/MSP for live audio synthesis, WebAudio browser-side synthesis. Five genre presets exploring different participatory modalities. 1,000+ concurrent participants, <2ms P95 latency. TypeScript pnpm monorepo. Docker/Redis/Nginx. Open-source MIT.

#### Portfolio — Generative Art & Interactive Visualization Site

Astro 5 static site with a real-time generative p5.js visual layer (three modes: subtle, bold, extreme), D3.js data visualizations, CMYK design system with dark-theme palette. 20 case studies documenting creative-technical practice. Pagefind search, CI/CD with quality ratchet governance.

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

Computational art practice as infrastructure: 8 GitHub organizations modeling a creative system as living organism. 21K code files, 3.6K tests, 94 CI/CD pipelines. Generative art engines, performance systems, and creative tooling orchestrated through automated dependency validation, promotion state machine, and CLAUDE.md governance. 32 AI agent definitions. Single-practitioner production using AI as compositional instrument. TypeScript + Python.

#### 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.

### EXPERIENCE

#### Independent Creative Technologist & AI Systems Builder

2020 — Present

- **Performance Technology:** Omni-Dromenon Engine — audience-participatory infrastructure with consensus algorithms, real-time audio synthesis bridge, genre-specific examples, Docker deployment.
- **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).
- **CI/CD Infrastructure:** 128 GitHub Actions workflows (18 reusable templates), 94 CI/CD pipelines, automated dependency validation across 8 GitHub organizations.
- **Developer Tooling:** CLI pipeline tools (scoring, drafting, submission, campaign orchestration), Greenhouse API integration, YAML schema validation, batch processing.

#### 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)