

# Anthony James Padavano

## CREATIVE TECHNOLOGIST & EXPERIMENTAL TOOLS BUILDER

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### LINKS

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

### PROFILE

Creative technologist working at the intersection of art and computation — building experimental tools, generative art systems, and interactive performance infrastructure. Creator of the Omni-Dromenon Engine, an audience-participatory performance system with real-time consensus algorithms and audio synthesis. Sole architect of a 103-repository creative system across 8 GitHub organizations, documented in 42 published essays (~142K words). Builder of generative p5.js visual systems and interactive web experiences. Full-Stack Developer (Meta). MFA Creative Writing. 11 years college instruction, 2,000+ students. LGBTQ+.

### TECHNICAL SKILLS

p5.js · WebGL · WebAudio · D3.js · SuperCollider · Max/MSP · OSC · TypeScript · React 18 · Node.js · Socket.io · WebSocket · Express · Python · Claude Agent SDK · Docker · Astro · Vite · GitHub Actions · CI/CD · pnpm Monorepos · Git

### SELECTED PROJECTS

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

Interactive performance infrastructure: 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 spanning electronic to orchestral. 1,000+ concurrent participants, <2ms P95 latency. TypeScript pnpm monorepo. Open-source MIT.

#### Portfolio — Generative Art & Interactive Web Experience

Astro 5 site with real-time generative p5.js visual layer (three modes: subtle, bold, extreme), D3.js data visualizations, CMYK design system. 20 case studies documenting creative technology practice. Full-page canvas rendering, interactive particle systems, procedural color generation.

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

Creative system as artwork: 8 GitHub organizations, 21K code files, 3.6K tests, 94 CI/CD pipelines. Process of creation made visible and governable as the primary creative output. 42 published essays (~142K words) documenting the practice. 32 AI agent definitions 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 & Systems Artist

2020 — Present

- **Performance Technology:** Omni-Dromenon Engine — audience-participatory infrastructure with consensus algorithms, real-time audio synthesis bridge, genre-specific interactive experiences, Docker deployment.
- **Generative Art & Interactive Systems:** p5.js generative visual systems, WebGL rendering, WebAudio synthesis, D3.js data visualization — creative coding as primary artistic medium.
- **Creative Infrastructure:** 103-repository system across 8 GitHub organizations with automated governance, 32 AI agent definitions, process-as-artwork methodology documented in 42 published essays (~142K words).
- **CI/CD & Tooling:** 128 GitHub Actions workflows (18 reusable templates), 94 CI/CD pipelines, CLI developer tools, automated dependency validation.

#### 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)