Anthony James Padavano

SYSTEMS ARTIST & CREATIVE TECHNOLOGIST

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LINKS

Portfolio · Omni-Dromenon Engine · ORGANVM System · GitHub

PROFILE

Systems artist building open-source performance technology and creative infrastructure at institutional scale. Creator of the Omni-Dromenon Engine — a real-time audience-participatory performance system where collective input shapes live art through weighted consensus while performers retain override authority. Genre presets for ballet, theatre, opera, electronic music, and installation. 18 years professional experience. MFA Creative Writing. 11 years college instruction, 2,000+ students. LGBTQ+.

TECHNICAL SKILLS

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

SELECTED PROJECTS

Omni-Dromenon Engine — Audience-Participatory Performance System
TypeScript pnpm monorepo: Express/Socket.io core with three-axis weighted consensus (spatial, temporal, cluster), React 18 performer/audience interfaces, OSC bridge to SuperCollider/Max/MSP, WebAudio synthesis. Four working examples (generative music, visual, choreographic interface, theatre dialogue). Five genre presets. Performer override (absolute/blend/lock). Docker/Redis/Nginx. 1,000+ concurrent participants, <2ms P95 latency. Festival rider, venue playbooks, collaboration agreements. Open-source MIT.

ORGANVM Eight-Organ Creative-Institutional System
101 repositories across 8 GitHub organizations. Automated dependency validation, promotion state machine, 82+ CI/CD pipelines, 2,349+ tests. 42 published essays (~142K words). Single-practitioner infrastructure using AI as compositional instrument.

Portfolio & Generative Art
Astro 5 site with real-time generative p5.js visual layer, D3.js data visualizations, Pagefind search, CMYK design system. 20 case studies.

EXPERIENCE

Independent Systems Artist & Creative Technologist   2020 — Present
- **Omni-Dromenon Engine:** Designed and built audience-participatory performance infrastructure — consensus algorithms, React interfaces, audio synthesis bridge, genre-specific examples, Docker deployment.
- **Eight-Organ System:** Architected 101-repository creative system with automated governance, cross-organization coordination, and public documentation practice.
- **AI-Augmented Methodology:** Production workflow using AI for code generation, architectural iteration, editorial refinement — analogous to conducting, where creative intelligence is structural.

Instructor — Composition & Writing   2015 — Present
Miami Dade College, Keiser University, Nova Southeastern, FAU, Young Harris, Tarrant County, Broward, Palm Beach State
- 100+ graduate and undergraduate courses across 8 institutions; 2,000+ students.
- 85% above-average achievement; 92% approval rating; 97% completion rate.

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)