Anthony James Padavano

SYSTEMS ARTIST & COMPUTATIONAL INFRASTRUCTURE

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LINKS

Portfolio · Omni-Dromenon Engine · ORGANVM System · GitHub

PROFILE

Systems artist whose primary medium is creative infrastructure at institutional scale. Creator of the ORGANVM project — 103 repositories coordinated across 8 GitHub organizations through automated governance — a living artwork where the process of creation, made visible and governable, is itself the work. 42 published essays (~142K words) documenting the practice. Builder of the Omni-Dromenon Engine, a real-time audience-participatory performance system with genre presets for ballet, theatre, opera, electronic music, and installation. MFA Creative Writing. 18 years professional experience across art, education, and technology. LGBTQ+.

TECHNICAL SKILLS

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

SELECTED PROJECTS

ORGANVM Eight-Organ Creative-Institutional System

Governance as artwork: 103 repositories across 8 GitHub organizations functioning as a living creative system with automated dependency validation, promotion state machine, and cross-organization coordination. 42 published essays (~142K words) document artistic and technical decision-making as public creative practice. 82+ CI/CD pipelines, 2,349+ tests. Single-practitioner infrastructure using AI as compositional instrument — analogous to conducting, where creative intelligence is structural.

Omni-Dromenon Engine — Audience-Participatory Performance System

Real-time performance infrastructure where collective audience input shapes live art through three-axis weighted consensus (spatial, temporal, cluster). TypeScript monorepo with 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 (ballet, theatre, opera, electronic music, installation). Performer override authority. 1,000+ concurrent participants, <2ms P95 latency. Festival rider and venue playbooks. Open-source MIT.

Portfolio & Generative Art

Astro 5 site with real-time generative p5.js visual layer responding to user interaction, D3.js data visualizations, CMYK design system. 20 case studies documenting creative and technical practice.

Application Pipeline — Structured Creative Production Tools

Python CLI tooling: 8-dimension scoring rubric, campaign orchestrator, YAML state machine, batch processing, conversion analytics. Infrastructure for managing creative application workflows at scale.

EXPERIENCE

Independent Systems Artist & Creative Technologist   2020 — Present

- **Eight-Organ System (Governance as Artwork):** Architected 103-repository creative system across 8 GitHub organizations — automated governance, cross-organization coordination, and a public documentation practice of 42 essays (~142K words) making artistic decision-making visible.
- **Omni-Dromenon Engine:** Designed and built audience-participatory performance infrastructure — consensus algorithms shaping live art, React interfaces, audio synthesis bridge to SuperCollider/Max/MSP, genre-specific examples, Docker deployment.
- **Public Writing Practice:** 42 published essays documenting creative infrastructure with pedagogical transparency — treating the process of creation as the primary artistic output.
- **AI-Augmented Creative Methodology:** Production workflow using AI as compositional instrument for code generation, architectural iteration, editorial refinement — analogous to conducting, where creative intelligence is structural.

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.

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%.

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)