Anthony James Padavano

OPEN-SOURCE CREATIVE INFRASTRUCTURE BUILDER

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LINKS

Portfolio · Omni-Dromenon Engine · ORGANVM System · GitHub

PROFILE

Open-source creative technologist building commons infrastructure for computational arts and governance. Creator and sole architect of a 103-repository MIT-licensed system across 8 GitHub organizations — 21K code files, 3.6K tests, 94 CI/CD pipelines — all publicly available as reusable open-source tools and frameworks. Builder of the Omni-Dromenon Engine, an MIT-licensed 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

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

SELECTED PROJECTS

ORGANVM Eight-Organ System — 103-Repository Open-Source Infrastructure
MIT-licensed commons infrastructure across 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. All repositories publicly available as reusable open-source frameworks. TypeScript + Python.

Omni-Dromenon Engine — Open-Source Audience-Participatory Platform
MIT-licensed 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. Designed as reusable community infrastructure for live performance.

Portfolio — Astro 5 Static Site with Generative Art
Open-source portfolio with real-time generative p5.js visual layer, D3.js data visualizations, Pagefind search, CMYK design system. 20 case studies documenting open-source creative methodology. CI/CD with quality ratchet governance. GitHub Pages deployment.

Application Pipeline — CLI Tooling Suite
Python CLI tools: 8-dimension scoring rubric, campaign orchestrator, YAML pipeline state machine, submission preflight, batch enrichment, velocity tracking. 14 independent scripts sharing a common library. Open-source developer tooling patterns.

EXPERIENCE

Independent Creative Technologist & Open-Source Infrastructure Builder   2020 — Present
- **Open-Source Infrastructure:** 103-repository MIT-licensed system with automated governance across 8 GitHub organizations. All code, documentation, and governance tooling publicly available as reusable commons infrastructure.
- **CI/CD & DevOps:** 128 GitHub Actions workflows (18 reusable templates), 94 CI/CD pipelines, automated dependency validation. Docker containerization, pnpm monorepo architecture, cross-org coordination.
- **Community Performance Platform:** Omni-Dromenon Engine — open-source audience-participatory infrastructure with consensus algorithms, real-time audio synthesis bridge, genre-specific examples, Docker deployment.
- **AI Orchestration:** 32 AI agent definitions, Claude Agent SDK integration, multi-agent coordination frameworks (agentic-titan: 1,276 tests). AI-conductor methodology: AI as compositional instrument, human directs architecture.

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)