

Anthony James Padavano

OPEN-SOURCE CREATIVE INFRASTRUCTURE BUILDER

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LINKS

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

PROFILE

Open-source developer and creative technologist maintaining 103 public repositories across 8 GitHub organizations — 21K code files, 3.6K tests, 94 CI/CD pipelines — all MIT-licensed and built using AI tools as compositional instruments. Creator of the Omni-Dromenon Engine, an open-source audience-participatory performance system. Builder of developer tooling, CLI pipeline suites, and infrastructure automation. Full-Stack Developer (Meta). 18 years professional experience. MFA Creative Writing. 11 years college instruction, 2,000+ students. LGBTQ+.

TECHNICAL SKILLS

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

SELECTED PROJECTS

ORGANVM Eight-Organ System — 103-Repository Open-Source Infrastructure

103 public repositories across 8 GitHub organizations, MIT-licensed. 21K code files, 3.6K tests, 94 CI/CD pipelines, 128 GitHub Actions workflows (18 reusable templates). Automated dependency validation, promotion state machine, cross-org coordination. CLAUDE.md governance in every repo. 32 AI agent definitions. TypeScript + Python.

Omni-Dromenon Engine — Open-Source Performance System

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. Open-source MIT license.

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. Open-source developer tooling demonstrating production CLI patterns.

Portfolio — Astro 5 Static Site with Generative Art

Real-time generative p5.js visual layer, D3.js data visualizations, Pagerefnd search, CMYK design system. 20 case studies. CI/CD with quality ratchet governance. Open-source Astro 5 static site.

EXPERIENCE

Independent Open-Source Developer & Creative Technologist

2020 — Present

- **Open-Source Infrastructure:** 103 public repositories across 8 GitHub organizations with automated governance, MIT licensing, CLAUDE.md standards in every repo. Single-practitioner production using AI as compositional instrument.
- **CI/CD & Automation:** 128 GitHub Actions workflows (18 reusable templates), 94 CI/CD pipelines, automated dependency validation, promotion state machine enforcing cross-org coordination.
- **Developer Tooling:** CLI pipeline tools (scoring, drafting, submission, campaign orchestration), Greenhouse API integration, YAML schema validation, batch processing. 14 independent scripts sharing a common library.
- **Performance Technology:** Omni-Dromenon Engine — open-source audience-participatory infrastructure with consensus algorithms, real-time audio synthesis bridge, genre-specific examples, Docker deployment.

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)