

Anthony James Padavano

SENIOR SOFTWARE ENGINEER (DEVELOPMENT & DATABASE EXPERIENCE)

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LINKS

[Portfolio](#) · [GitHub](#) · [agentic-titan](#) · [ORGANVM System](#)

PROFILE

Independent engineer and systems architect building production-grade developer tools, internal platforms, and multi-agent orchestration frameworks in TypeScript and Node.js. Architect of a 103-repository ecosystem governed by automated validation, 94 CI/CD pipelines, and 2,349+ tests. Specialist in bridging the gap between frontier database capabilities and AI-native engineering infrastructure through an "AI-conductor" methodology. Focused on correctness, systemic reliability, and building high-performance tooling—including MCP servers and WebSocket-based communication layers—to manage global-scale data infrastructure. Full-Stack Developer (Meta). 18 years professional experience. LGBTQ+.

TECHNICAL SKILLS

Node.js · TypeScript · CLI Tooling · GitHub Actions · CI/CD · Claude Agent SDK · WebSocket · Redis · MongoDB Atlas · Zod · pytest · Vitest · YAML/JSON Schema · React 18 · pnpm Monorepos · Express · Docker · Git · GCP / Terraform · Nginx · D3.js · p5.js

SELECTED PROJECTS

agentic-titan — Multi-Agent Orchestration & CLI Framework

TypeScript framework for orchestrating complex, multi-step engineering tasks across autonomous agents. Includes 18 development phases and 1,276 tests. Features high-reliability tool invocation, task decomposition, and WebSocket-based state management.

ORGANVM Eight-Organ System — 103-Repository Developer Infrastructure

A unified technical corpus encompassing 21K code files and 3.6K tests. Governed by a formal promotion state machine and automated dependency validation. Features 128 GitHub Actions workflows built on 18 reusable templates. A live demonstration of "solo production at institutional scale."

agent--claude-smith — Claude Agent SDK Reliability Layer

Advanced agent implementation built on Claude Agent SDK. Features session persistence, self-correction hooks, and structured tool invocation designed to understand and mitigate model capability gaps in production engineering environments.

Application Pipeline — Systems Analysis Tooling Suite

Python-based CLI suite for pipeline orchestration: 8-dimension scoring rubric and YAML-driven state machine. Automates intake, research, and synthesis tasks, translating deep technical evidence into scannable storefront materials.

Classroom RPG Aetheria — AI-Native Learning Environment

Gamified education platform featuring dynamic AI quest generation. Hardened for production with XSS mitigation and robust failure handling. Built to handle complex AI integration with production-grade reliability.

EXPERIENCE

Independent Software Engineer & DevTools Architect

2020 — Present

- **Infrastructure Reliability:** Built a corpus of 2,349+ tests across 94 active repositories, ensuring correctness in complex, cross-organizational developer tooling.
- **AI-Native Automation:** Developed multi-agent frameworks using the Claude Agent SDK (agentic-titan, 1,276 tests) featuring structured tool invocation and self-correction protocols.
- **Systems Governance:** Designed a 103-repo system with automated dependency graph validation (43 edges) and a formal promotion state machine (LOCAL → CANDIDATE → PUBLIC → GRADUATED).
- **Workflow Orchestration:** Managed 128 GitHub Actions workflows using 18 reusable templates to maintain production reliability across 8 independent organizations.

Instructor — Writing & Complex Systems

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. Translating complex architectural requirements into accessible documentation and mentoring junior developers in technical rigor.

Digital Marketing Manager

2023 — 2024

Miami Dade College Foundation (nonprofit)

- Architected foundation website overhaul and campaign design, utilizing data analysis to drive a 32% increase in donor engagement.

Multimedia Specialist

2011 — 2020

AJP Media Arts — clients incl. Boca Ballet Theatre, Forward Funding, Arts in Boca

- Produced high-volume visual and narrative campaigns; generated 17.5M+ views and \$2M in fundraising through technical and creative production.

EDUCATION

M.F.A. Creative Writing, Florida Atlantic University

2015 — 2018

B.A. English Literature, CUNY College of Staten Island

2010 — 2014

C E R T I F I C A T I O N S Full-Stack Developer, Meta (2024) · UX Design, Google (2023) · Digital Marketing, Google (2023) · Project Management, Google (2023)