

# ***Anthony James Padavano***

SENIOR SOFTWARE ENGINEER (DEVELOPMENT & DATABASE EXPERIENCE)

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## LINKS

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

## PROFILE

Independent engineer building production-grade developer tools and multi-agent orchestration frameworks in TypeScript and Node.js. Architect of a 103-repository ecosystem with 94 CI/CD pipelines and 2,349+ tests. Specialist in AI-native engineering infrastructure through an "AI-conductor" methodology, including MCP servers and WebSocket-based tooling for global-scale data systems. 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**

Agent implementation built on Claude Agent SDK with session persistence, self-correction hooks, and structured tool invocation for production engineering environments.

### **Application Pipeline — Systems Analysis Tooling Suite**

Python CLI suite for pipeline orchestration with 8-dimension scoring rubric and YAML-driven state machine. Automates intake, research, and synthesis tasks.

### **Linguistic Atomization Framework — Computational Text Analysis**

Formal decomposition engine applying recursive parsing to literary structures, with a focus on Joycean textual analysis. Bridges literary scholarship (BA English Lit, MFA Creative Writing) with computational systems thinking.

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## 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.

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## EDUCATION

### **M.F.A. Creative Writing** (Joyce, systems narrative), Florida Atlantic University

2015 – 2018

**B.A. English Literature** (Joyce concentration), CUNY College of Staten Island

2010 – 2014

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## CERTIFICATIONS

Full-Stack Developer, Meta (2024) · UX Design, Google (2023) · Digital Marketing, Google (2023) · Project Management, Google (2023)