

# **Anthony James Padavano**

## SOFTWARE ENGINEER II (PYTHON & DEVELOPER TOOLS)

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### LINKS

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

### PROFILE

Independent software engineer and systems architect building production-grade Python and Node.js infrastructure, developer tooling, and AI orchestration frameworks. Creator and sole architect of a 103-repository ecosystem governed by automated validation, 94 CI/CD pipelines, and 2,349+ tests. Specialist in architecting "golden path" developer tools and bridging the gap between frontier search/AI capabilities and reliable engineering ecosystems. Expert in open-source development, versioning, and building self-service platforms that engineers can trust at institutional scale. Full-Stack Developer (Meta). 18 years professional experience. MFA Creative Writing. LGBTQ+.

### TECHNICAL SKILLS

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

### SELECTED PROJECTS

#### **ORGANVM Eight-Organ System — 103-Repository Developer Infrastructure**

A unified technical corpus encompassing 21K code files and 3.6K tests across 8 organizations. Governed by a formal promotion state machine and automated dependency validation (43 edges). Features 128 GitHub Actions workflows built on 18 reusable templates. A live demonstration of "solo production at institutional scale" and open-source engineering rigor.

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

Python-based CLI suite for pipeline orchestration: 8-dimension scoring rubric, campaign management, and YAML-driven state machine. Automates intake, research, and synthesis tasks via a shared library of infrastructure scripts designed for high-signal scannability.

#### **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. Engineered for high-reliability tool invocation, task decomposition, and parallel execution.

#### **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 complex engineering workflows.

#### **Portfolio — Performance-Grade Static Site**

Astro 5 site governed by a CI/CD "quality ratchet" that enforces strict validation and testing standards. Represents the scannable "Storefront" for deep systemic infrastructure work.

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### EXPERIENCE

#### **Independent Software Engineer & Developer Tools Architect**

2020 – Present

- **Infrastructure Reliability:** Built a corpus of 2,349+ tests across 94 active repositories, ensuring correctness in complex, cross-organizational developer tooling.
- **Golden Path Orchestration:** Designed CLI pipeline tools using Python and YAML schema validation; optimized for removing friction in complex research and synthesis workflows.
- **AI-Native Automation:** Developed multi-agent frameworks using the Claude Agent SDK featuring structured tool invocation and self-correction protocols for autonomous engineering.
- **Governance at Scale:** Orchestrated 128 GitHub Actions workflows built on 18 reusable templates to maintain production reliability across 8 independent organizations.

#### **Instructor — Composition, 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 technical 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 through technical and creative production.

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### 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)