Anthony James Padavano

SOFTWARE ENGINEER (UI PLATFORM & DESIGN SYSTEMS)

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LINKS

Portfolio · GitHub · agentic-titan · ORGANVM System

PROFILE

Independent software engineer and creative technologist building production-grade UI infrastructure, shared component libraries, and AI-native developer platforms. Creator and sole architect of a 103-repository ecosystem across 8 GitHub organizations governed by automated validation, 94 CI/CD pipelines, and 2,349+ tests. Specialist in architecting high-leverage design systems and BFF APIs that bridge the gap between complex agentic backends and delightful frontend scannability. Expert in React, TypeScript, and utilizing an "AI-conductor" methodology to maintain technical integrity while scaling foundational UI layers. Full-Stack Developer (Meta). 18 years professional experience. MFA Creative Writing. LGBTQ+.

TECHNICAL SKILLS

React 18 · TypeScript · Next.js · Design Systems · Shared Components · BFF APIs · Node.js · CLI Tooling · GitHub Actions · CI/CD · Zod · pytest · Vitest · YAML/JSON Schema · Docker · Git · pnpm Monorepos · GCP / Terraform · WebSocket · Redis · Nginx · D3.js · p5.js

SELECTED PROJECTS

Portfolio — Performance-Grade Static Site & Component Showcase
Astro 5 site governed by a CI/CD "quality ratchet" that enforces strict validation and testing standards. Features shared UI components, generative p5.js visual layers, and D3.js data visualizations. Represents the scannable "Storefront" for deep systemic work and high-fidelity frontend engineering.

Classroom RPG Aetheria — AI-Native Learning Environment
Gamified education platform prototype featuring dynamic AI quest generation. Hardened for production with XSS mitigation (DOMPurify) and robust failure handling. An exploration of building resilient, human-centric UI abstractions for complex AI integrations.

Application Pipeline — Systems Analysis & Developer Console 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 for product engineers and AI agents.

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 how institutional-scale platform foundations can be orchestrated by a solo practitioner.

agentic-titan — Multi-Agent Orchestration & CLI Framework
TypeScript framework for orchestrating complex engineering tasks across autonomous agents. Includes 18 development phases and 1,276 tests. Engineered for high-reliability tool invocation, task decomposition, and delightful developer abstractions.

EXPERIENCE

Independent Software Engineer & UI Platform Architect
2020 — Present

- **Platform Orchestration:** Designed a 103-repository system governed by automated validation and 94 CI/CD pipelines; treating institutional-scale foundations as a solo exercise in UI/UX architecture.
- **Infrastructure Reliability:** Built a corpus of 2,349+ tests across 94 active repositories, ensuring technical integrity in complex, cross-organizational developer tooling and design systems.
- **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 and minimize architectural friction 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 and architectural requirements into accessible documentation and mentoring junior developers in technical rigor.

Digital Marketing Manager & Narrative Strategist
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 through technical execution.

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 orchestration.

| **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)