

Anthony James Padavano

STAFF SOFTWARE ENGINEER (BACKEND & API CORE)

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LINKS	Portfolio · GitHub · agentic-titan · ORGANVM System	
PROFILE	Independent software engineer and systems architect building production-grade backend infrastructure, multi-agent orchestration frameworks, 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 tasteful API design and scaling frontier agentic capabilities—including tool-use, computer-use, and long-running task execution—within distributed research environments. Expert in Python (FastAPI), Kubernetes, and utilizing an "AI-conductor" methodology to maintain technical integrity at institutional scale. Full-Stack Developer (Meta). 18 years professional experience. MFA Creative Writing. LGBTQ+.	
TECHNICAL SKILLS	Python · FastAPI · Node.js · TypeScript · API Design · Distributed Systems · Kubernetes · PostgreSQL · Vector Databases · Claude Agent SDK · CLI Tooling · GitHub Actions · CI/CD · Zod · pytest · Vitest · YAML/JSON Schema · Docker · Git · pnpm Monorepos · GCP / Terraform · WebSocket · Redis · Nginx	
SELECTED PROJECTS	agentic-titan — Multi-Agent Orchestration & API 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 integration with agentic platforms and data layers.	
	ORGANVM Eight-Organ System — 103-Repository Backend 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" and complex API orchestration.	
	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 productize cutting-edge model capabilities.	
	Application Pipeline — Systems Analysis & Backend Tooling Suite Python-based CLI suite for pipeline orchestration: 8-dimension scoring rubric and YAML-driven state machine. Automates intake, research, and synthesis tasks via a shared library of infrastructure scripts designed for high-signal scannability.	
	Portfolio — Performance-Grade Documentation 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 backend work.	
EXPERIENCE	Independent Software Engineer & Systems Architect 2020 — Present <ul style="list-style-type: none">Infrastructure Reliability: Built a corpus of 2,349+ automated tests across 94 active repositories, ensuring correctness in complex, cross-organizational developer tooling and backend systems.API Design & Orchestration: Designed CLI pipeline tools using Python and YAML schema validation; optimized for managing high-volume data and complex state transitions.AI-Native Automation: Developed multi-agent frameworks using the Claude Agent SDK featuring structured tool invocation and self-correction protocols for autonomous engineering.Systems Governance: Orchestrated 128 GitHub Actions workflows using 18 reusable templates to maintain production reliability and minimize architectural friction across 8 organizations.	
	Instructor — Composition, Writing & Complex Systems 2015 — Present <i>Miami Dade College, Keiser University, Nova Southeastern, FAU, Young Harris, Tarrant County, Broward, Palm Beach State</i> <ul style="list-style-type: none">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 & Narrative Strategist 2023 — 2024 <i>Miami Dade College Foundation (nonprofit)</i> <ul style="list-style-type: none">Architected foundation website overhaul and campaign design, utilizing data analysis to drive a 32% increase in donor engagement.	
	Multimedia Specialist 2011 — 2020 <i>AJP Media Arts — clients incl. Boca Ballet Theatre, Forward Funding, Arts in Boca</i> <ul style="list-style-type: none">Produced high-volume visual and narrative campaigns; generated 17.5M+ views 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	
CERTIFICATIONS	Full-Stack Developer, Meta (2024) · UX Design, Google (2023) · Digital Marketing, Google (2023) · Project Management, Google (2023)	