

Anthony James Padavano

INFRASTRUCTURE ENGINEER (SANDBOXING & SECURE EXECUTION)

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LINKS	Portfolio · GitHub · agentic-titan · ORGANVM System	
PROFILE	Independent infrastructure engineer and systems architect building production-grade backend systems and secure orchestration layers. 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 scaling sandboxed compute environments and resilient distributed systems designed for frontier AI research. Expert in "solo production at institutional scale," utilizing an "AI-conductor" methodology to maintain technical integrity while ensuring secure and performant model-environment interaction across diverse cloud platforms (GCP/AWS). Full-Stack Developer (Meta). 18 years professional experience. MFA Creative Writing. LGBTQ+.	
TECHNICAL SKILLS	Distributed Systems · Sandbox/Isolation · Kubernetes · Python · Go · Docker · Infrastructure as Code · CI/CD · GitHub Actions · GCP / GCS · Zod · pytest · Vitest · YAML/JSON Schema · Node.js · Claude Agent SDK · Git · pnpm Monorepos · WebSocket · Redis · Nginx · D3.js · p5.js	
SELECTED PROJECTS	ORGANVM Eight-Organ System — 103-Repository Systems 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 distributed systems and secure boundaries can be managed by a solo practitioner.	
	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 secure, isolated task 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 ground AI reasoning in secure, sandboxed infrastructure.	
	Application Pipeline — Systems Analysis & Infrastructure 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 operational excellence.	
	Portfolio — Performance-Grade Monitoring Interface 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 and real-time observability reporting.	
EXPERIENCE	Independent Software Engineer & Infrastructure Architect 2020 — Present <ul style="list-style-type: none">Infrastructure Reliability: Built a corpus of 2,349+ tests across 94 active repositories, ensuring technical integrity in complex, cross-organizational developer tooling and secure execution environments.Systems Governance: Designed a 103-repository system governed by automated validation and 94 CI/CD pipelines to sustain institutional-scale production as a solo practitioner.AI-Native Automation: Developed multi-agent frameworks using the Claude Agent SDK featuring structured tool invocation and self-correction protocols for autonomous engineering.Operational Excellence: Orchestrated 128 GitHub Actions workflows using 18 reusable templates to maintain production reliability and minimize architectural friction across 8 independent 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 technical and 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 through technical execution.	
	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 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)