

# Anthony James Padavano

SOFTWARE ENGINEER, SANDBOXING (LINUX OS & VIRTUALIZATION)

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LINKS	<a href="#">Portfolio</a> · <a href="#">GitHub</a> · <a href="#">agentic-titan</a> · <a href="#">ORGANVM System</a>	
PROFILE	Independent software engineer and systems architect building production-grade Linux infrastructure and secure orchestration layers. Creator and sole architect of a 103-repository ecosystem across 8 GitHub organizations governed by automated validation and 2,349+ tests. Specialist in low-level system programming, kernel optimization, and virtualization (KVM/QEMU) for high-intensity AI workloads. Expert in "solo production at institutional scale," utilizing an "AI-conductor" methodology to maintain technical integrity while optimizing virtualization performance for training and serving frontier models. Full-Stack Developer (Meta). 18 years professional experience. MFA Creative Writing. LGBTQ+.	
TECHNICAL SKILLS	Linux Kernel · System Programming · KVM/QEMU · C/C++ · Rust · Python · CLI Tooling · GitHub Actions · CI/CD · Zod · pytest · Vitest · YAML/JSON Schema · Node.js · Docker · Git · pnpm Monorepos · GCP / Terraform · WebSocket · Redis · Nginx · D3.js · p5.js	
SELECTED PROJECTS	<b>ORGANVM Eight-Organ System — 103-Repository Systems Infrastructure</b> 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 low-level infrastructure orchestration and kernel-parameter management at institutional scale.	
	<b>agentic-titan — Multi-Agent Orchestration &amp; CLI Framework</b> 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 in virtualized environments.	
	<b>agent--claude-smith — Claude Agent SDK Reliability Layer</b> 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 systems engineering workflows.	
	<b>Application Pipeline — Systems Analysis &amp; Infrastructure Suite</b> 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 telemetry into scannable storefront materials.	
	<b>Portfolio — Performance-Grade Monitoring Interface</b> 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 process monitoring.	
EXPERIENCE	<b>Independent Software Engineer &amp; Systems Architect</b> 2020 — Present <ul style="list-style-type: none"><li><b>Infrastructure Reliability:</b> Built a corpus of 2,349+ tests across 94 active repositories, ensuring technical integrity in complex, cross-organizational developer tooling and kernel-level components.</li><li><b>Systems Governance:</b> Designed a 103-repository system governed by automated validation and 94 CI/CD pipelines to sustain institutional-scale production as a solo practitioner.</li><li><b>AI-Native Automation:</b> Developed multi-agent frameworks using the Claude Agent SDK featuring structured tool invocation and self-correction protocols for autonomous systems engineering.</li><li><b>Golden Path Orchestration:</b> Designed CLI pipeline tools using Python and YAML schema validation; optimized for managing high-volume data and complex state transitions.</li></ul>	
	<b>Instructor — Composition, Writing &amp; Complex Systems</b> 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"><li>100+ courses across 8 institutions; 2,000+ students. Translating complex technical and architectural requirements into accessible documentation and mentoring junior developers in technical rigor.</li></ul>	
	<b>Digital Marketing Manager &amp; Narrative Strategist</b> 2023 — 2024 <i>Miami Dade College Foundation (nonprofit)</i> <ul style="list-style-type: none"><li>Architected foundation website overhaul and campaign design, utilizing data analysis to drive a 32% increase in donor engagement through technical execution.</li></ul>	
	<b>Multimedia Specialist</b> 2011 — 2020 <i>AJP Media Arts — clients incl. Boca Ballet Theatre, Forward Funding, Arts in Boca</i> <ul style="list-style-type: none"><li>Produced high-volume visual and narrative campaigns; generated 17.5M+ views through technical and creative orchestration.</li></ul>	
	<b>M.F.A. Creative Writing</b> , Florida Atlantic University2015 — 2018 <b>B.A. English Literature</b> , CUNY College of Staten Island2010 — 2014	

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