

# Anthony James Padavano

## SENIOR SOFTWARE ENGINEER (DEVTOOLS & DATABASE EXPERIENCE)

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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 engineer and systems architect building production-grade developer tools, internal platforms, and multi-agent orchestration frameworks in TypeScript and Node.js. Architect of a 103-repository ecosystem governed by automated validation, 94 CI/CD pipelines, and 2,349+ tests. Specialist in bridging the gap between frontier database capabilities and AI-native engineering infrastructure through an "AI-conductor" methodology. Focused on correctness, systemic reliability, and building high-performance tooling—including MCP servers and WebSocket-based communication layers—to manage global-scale data infrastructure. Full-Stack Developer (Meta). 18 years professional experience. LGBTQ+.	
TECHNICAL SKILLS	Node.js · TypeScript · CLI Tooling · GitHub Actions · CI/CD · Claude Agent SDK · WebSocket · Redis · MongoDB Atlas · Zod · pytest · Vitest · YAML/JSON Schema · React 18 · pnpm Monorepos · Express · Docker · Git · GCP / Terraform · Nginx · D3.js · p5.js	
SELECTED PROJECTS	<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. Features high-reliability tool invocation, task decomposition, and WebSocket-based state management.	
	<b>ORGANVM Eight-Organ System — 103-Repository Developer 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 "solo production at institutional scale."	
	<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 production engineering environments.	
	<b>Application Pipeline — Systems Analysis Tooling 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 evidence into scannable storefront materials.	
	<b>Classroom RPG Aetheria — AI-Native Learning Environment</b> Gamified education platform featuring dynamic AI quest generation. Hardened for production with XSS mitigation and robust failure handling. Built to handle complex AI integration with production-grade reliability.	
EXPERIENCE	<b>Independent Software Engineer &amp; DevTools 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 correctness in complex, cross-organizational developer tooling.</li><li><b>AI-Native Automation:</b> Developed multi-agent frameworks using the Claude Agent SDK (agentic-titan, 1,276 tests) featuring structured tool invocation and self-correction protocols.</li><li><b>Systems Governance:</b> Designed a 103-repo system with automated dependency graph validation (43 edges) and a formal promotion state machine (LOCAL → CANDIDATE → PUBLIC → GRADUATED).</li><li><b>Workflow Orchestration:</b> Managed 128 GitHub Actions workflows using 18 reusable templates to maintain production reliability across 8 independent organizations.</li></ul>	
	<b>Instructor — 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 architectural requirements into accessible documentation and mentoring junior developers in technical rigor.</li></ul>	
	<b>Digital Marketing Manager</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.</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 and \$2M in fundraising through technical and creative production.</li></ul>	
	<b>EDUCATION</b>	
<b>M.F.A. Creative Writing</b> , Florida Atlantic University		2015 — 2018
<b>B.A. English Literature</b> , 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)