

Anthony James Padavano

APPLIED AI & SYSTEMS ENGINEER

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LINKS	Portfolio · GitHub · agentic-titan · ORGANVM System	
PROFILE	Applied AI engineer building data pipelines, validation-heavy automation, and LLM-integrated infrastructure in Python and TypeScript. Creator of a 103-repo system across 8 GitHub orgs — 21K files, 3.6K tests, 94 CI/CD pipelines — with schema validation and quality gates at every stage. AI-conductor methodology: human directs, AI generates volume, human reviews with safety constraints. Full-Stack Developer (Meta). 18 yrs experience. MFA. 2,000+ students. LGBTQ+.	
TECHNICAL SKILLS	Python · Data Pipeline Design · Claude API · Claude Agent SDK · LLM Integration · YAML/JSON Schema · Zod · pytest · Vitest · ruff · CLI Tooling · Docker · GitHub Actions · CI/CD · TypeScript · Node.js · Git · GCP / Terraform · Redis · Express · WebSocket	
SELECTED PROJECTS	<p>Application Pipeline — Data Pipeline & Validation Engine Python CLI suite; YAML schema enforcement, 8-dimension scoring rubric, forward-only state machine, preflight checks, batch enrichment. Greenhouse API integration; 14 scripts sharing a validated common library.</p> <p>ORGANVM Eight-Organ System — 103-Repository Validated Infrastructure 8 GitHub orgs; 21K files, 3.6K tests, 94 CI/CD pipelines. Schema-validated governance enforced on every merge; promotion state machine (LOCAL → GRADUATED) with quality gates. TypeScript + Python.</p> <p>agentic-titan — Multi-Agent Orchestration Framework TypeScript multi-agent framework; 18 phases, 1,276 tests. Agent coordination, fault tolerance, task decomposition, parallel execution.</p> <p>agent--claude-smith — Claude Agent SDK Integration Claude Agent SDK; session persistence, self-correction, Zod validation, structured tool invocation. Plan-execute-evaluate-refine workflow.</p> <p>Portfolio — Astro 5 Static Site Generative p5.js layer, D3.js visualizations, Pagefind search, 20 case studies. Quality ratchet governance validated on every build.</p>	
EXPERIENCE	<p>Independent Software Engineer & Applied AI Builder 2020 — Present</p> <ul style="list-style-type: none">Data Pipelines: Python CLI with schema-enforced YAML, forward-only state machine, 8-dimension scoring, preflight validation, batch processing with integrity constraints.Claude Agent Systems: agent--claude-smith (Agent SDK; session persistence, self-correction, structured tools) and agentic-titan (1,276 tests, 18 phases) — production LLM deployment patterns.Testing & Quality: 3.6K tests across 103 repos; quality ratchet governance; safety constraints in governance-rules.json enforced via CI/CD.CI/CD: 128 GitHub Actions workflows (18 reusable), 94 pipelines, automated dependency validation across 8 orgs. <p>Instructor — Composition & Writing 2015 — Present <i>Miami Dade College, Keiser University, Nova Southeastern, FAU, Young Harris, Tarrant County, Broward, Palm Beach State</i></p> <ul style="list-style-type: none">100+ courses, 8 institutions, 2,000+ students. Curriculum design; structured feedback; clear technical communication. <p>Digital Marketing Manager 2023 — 2024 <i>Miami Dade College Foundation (nonprofit)</i></p> <ul style="list-style-type: none">Rebuilt website; data-driven campaigns increasing donor engagement 32%. <p>Multimedia Specialist 2011 — 2020 <i>AJP Media Arts — clients incl. Boca Ballet Theatre, Forward Funding, Arts in Boca</i></p> <ul style="list-style-type: none">Video, audio, and visual campaigns for nonprofits and arts organizations; 17.5M+ views, \$2M in fundraising.	
EDUCATION	<p>M.F.A. Creative Writing, Florida Atlantic University 2015 — 2018</p> <p>B.A. English Literature, CUNY College of Staten Island 2010 — 2014</p>	
CERTIFICATIONS	Full-Stack Developer, Meta (2024) · UX Design, Google (2023) · Digital Marketing, Google (2023) · Project Management, Google (2023)	