Anthony James Padavano

SOFTWARE ENGINEER & AI EVALUATION SYSTEMS BUILDER

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LINKS	Portfolio · GitHub · agentic-titan · ORGANVM System
PROFILE	Software engineer building evaluation frameworks, testing infrastructure, and automated validation systems in Python and TypeScript. Architect of a 103-repository system governed by 3,600+ tests, 94 CI/CD pipelines, and automated health audits enforcing constitutional constraints across 8 GitHub organizations. Built agentic-titan — a multi-agent orchestration framework with 1,276 tests across 18 development phases, functioning as an agent evaluation harness for coordination, fault tolerance, and graceful degradation. Practitioner of an AI-conductor methodology integrating Claude Agent SDK for structured tool invocation and self-correction. Full-Stack Developer (Meta). 18 years professional experience. MFA Creative Writing. 11 years college instruction, 2,000+ students. LGBTQ+.
TECHNICAL SKILLS	Python · TypeScript · pytest · Vitest · Claude Agent SDK · CI/CD · GitHub Actions · YAML/JSON Schema · CLI Tooling · Node.js · Docker · Git · Zod · ruff · React 18 · Astro · Vite · pnpm Monorepos · GCP / Terraform

SELECTED PROJECTS

agentic-titan — Multi-Agent Orchestration & Evaluation Harness
TypeScript multi-agent framework: 18 development phases, 1,276 tests. Agent evaluation harness testing coordination, message passing, fault tolerance, and graceful degradation. Structured for extensibility and reliability across parallel execution patterns.

ORGANVM Eight-Organ System — 103-Repository Validation Infrastructure
8 GitHub organizations, 21K code files, 3,600+ tests, 94 CI/CD pipelines. Automated evaluation systems: organ-audit.py (monthly health checks across 103 repos), platform-validation.py (1,267 audited links, 43 dependency edges), constitutional constraint enforcement (no circular dependencies, no back-edges, transitive depth ≤ 4). 128 GitHub Actions workflows (18 reusable templates). Promotion state machine (LOCAL → CANDIDATE → PUBLIC → GRADUATED). TypeScript + Python.

Portfolio — Astro 5 Static Site with Quality Ratchet Governance
Quality ratchet governance system: committed policy JSONs enforcing test coverage, accessibility, and build integrity. Automated regression monitoring with CI/CD gates. Generative p5.js visual layer, D3.js data visualizations, Pagefind search, 20 case studies.

Application Pipeline — Scoring, Validation & Evaluation CLI Suite
Python CLI tools: 8-dimension weighted scoring rubric (score.py), YAML schema validation (validate.py), submission preflight checks, conversion analysis, and campaign orchestration. 191 tests across 16 CLI scripts. Greenhouse API client, batch enrichment, velocity tracking. 14 independent scripts sharing a common library.

agent--claude-smith — Claude Agent SDK Integration
TypeScript agent built on Claude Agent SDK with session persistence, self-correction hooks, and structured tool invocation. Designed for autonomous multi-step software engineering tasks.

EXPERIENCE

Independent Software Engineer & AI Evaluation Systems Builder   2020 — Present
- **CI/CD Infrastructure & Validation:** 128 GitHub Actions workflows (18 reusable templates), 94 CI/CD pipelines, automated dependency validation across 8 GitHub organizations. Constitutional constraint enforcement blocking merges that violate architectural rules.
- **Testing & Evaluation Systems:** 3,600+ tests across 103 repositories. organ-audit.py (monthly health checks), platform-validation.py (1,267 audited links, 43 dependency edges), quality ratchet governance with regression monitoring and golden datasets.
- **LLM Orchestration:** Multi-agent systems with Claude Agent SDK (agent--claude-smith), agentic-titan framework (1,276 tests across 18 phases), structured tool invocation and self-correction.
- **Developer Tooling:** CLI pipeline tools (8-dimension scoring, validation, preflight checks, conversion analysis, campaign orchestration), Greenhouse API integration, YAML schema validation, batch processing.

Instructor — Composition & Writing   2015 — Present
Miami Dade College, Keiser University, Nova Southeastern, FAU, Young Harris, Tarrant County, Broward, Palm Beach State
- 100+ courses across 8 institutions; 2,000+ students. Designed rubric-based assessment systems, iterative feedback loops, and structured evaluation of student work at scale.

Digital Marketing Manager   2023 — 2024
Miami Dade College Foundation (nonprofit)
- Rebuilt foundation website; designed campaigns increasing donor engagement by 32%.

Multimedia Specialist   2011 — 2020
AJP Media Arts — clients incl. Boca Ballet Theatre, Forward Funding, Arts in Boca
- Video, audio, and visual campaigns for nonprofits and arts organizations; 17.5M+ views, $2M in fundraising.

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)