Anthony James Padavano

TYPESCRIPT INFRASTRUCTURE & DEVELOPER EXPERIENCE ENGINEER

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LINKS

Portfolio · GitHub · agentic-titan · ORGANVM System

PROFILE

TypeScript strict-mode engineer building product infrastructure, developer tooling, and automated quality systems. Creator and sole architect of a 103-repository system across 8 GitHub organizations — 94 CI/CD pipelines, 128 GitHub Actions workflows (18 reusable templates), 43 validated dependency edges with zero circular dependencies. Every repo governed by CLAUDE.md developer onboarding documents, seed.yaml metadata contracts, and automated validation scripts. Full-Stack Developer (Meta). Practitioner of documentation-first engineering: 810K+ words of structured documentation designed to eliminate tribal knowledge and reduce onboarding friction. 18 years professional experience. 11 years college instruction, 2,000+ students. LGBTQ+.

TECHNICAL SKILLS

TypeScript · Node.js · Vitest · pnpm Monorepos · CI/CD · GitHub Actions · Zod · Vite · Astro · CLI Tooling · YAML/JSON Schema · Docker · Git · Python · pytest · ruff · Claude Agent SDK · React 18 · Express · WebSocket · Redis · Nginx · GCP / Terraform

SELECTED PROJECTS

ORGANVM Eight-Organ System — 103-Repository Developer Infrastructure

TypeScript + Python monorepo-scale infrastructure across 8 GitHub organizations. 94 CI/CD pipelines, 128 GitHub Actions workflows (18 reusable templates), automated dependency validation enforcing 43 edges with zero circular dependencies. CLAUDE.md developer onboarding in every repo. Promotion state machine (LOCAL → CANDIDATE → PUBLIC → GRADUATED), machine-readable registry (registry-v2.json) tracking implementation status and dependency declarations. 21K code files, 3.6K tests.

agentic-titan — TypeScript Multi-Agent Framework

TypeScript strict-mode framework: 18 development phases, 1,276 tests via Vitest. Agent coordination, task decomposition, and parallel execution patterns. Structured for extensibility with typed interfaces, schema validation, and comprehensive test coverage.

Application Pipeline — CLI Tooling Suite & API Integration

14 independent Python CLI scripts sharing a common library. YAML-based state machine managing 60+ entries through defined lifecycle. Greenhouse and Ashby API integration, 8-dimension scoring rubric, batch enrichment, submission preflight validation, campaign orchestration, velocity tracking. Infrastructure patterns applied to workflow automation.

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 with reliable error handling.

Portfolio — Astro 5 Static Site with Quality Ratchet CI

Astro 5 with TypeScript strict mode, Vite build pipeline, Pagefind search indexing. CI/CD quality ratchet governance: committed policy JSONs enforced by automated tests. 20 case studies. Generative p5.js visual layer, D3.js data visualizations.

EXPERIENCE

Independent Software Engineer & Developer Tools Builder   2020 — Present

- **CI/CD Infrastructure:** 128 GitHub Actions workflows (18 reusable templates), 94 CI/CD pipelines, automated dependency validation across 8 GitHub organizations. Zero circular dependencies enforced by automated scripts.
- **Developer Tooling & Documentation:** CLAUDE.md developer onboarding in every repo, seed.yaml metadata contracts, CLI pipeline tools (scoring, drafting, submission, campaign orchestration), YAML schema validation, Greenhouse and Ashby API integration.
- **AI-Conductor Methodology:** Designed 103-repository system governed by CLAUDE.md files, AI agent definitions, and automated validation — human directs, AI generates, human reviews.
- **TypeScript Systems:** Multi-agent framework (agentic-titan, 1,276 tests via Vitest), Claude Agent SDK integration (agent--claude-smith), structured tool invocation and self-correction. TypeScript strict mode across all TypeScript projects.

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. Clear technical communication, documentation, and mentoring.

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)