

SEAN McDONNELL

Technical Support & Implementation Engineer | Python · TypeScript · APIs · Applied AI

Mansfield, Texas · Remote (United States) · U.S. citizen · No sponsorship required
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PROFESSIONAL SUMMARY

Hands-on software engineer and client-service professional combining Python and TypeScript troubleshooting, API integration, applied-AI systems, technical documentation, and 27 years of high-trust customer work. Portfolio includes 12 applications published on Apple's App Store through NextEleven, a completed bilingual web-presence delivery for JP Transmission Recycling, and completed confidential-client systems. Recent public proof includes a Rust coding agent with a 376-test binary suite and an 11-job cross-platform CI matrix. Seeking remote technical support, developer support, implementation, integration, or customer-engineering roles.

SUPPORT AND TECHNICAL SKILLS

Troubleshooting and support: Failure reproduction · log and error analysis · root-cause isolation · API debugging · technical documentation · runbooks · human-review and escalation workflows

Languages: Python · TypeScript/JavaScript · Rust · Kotlin · Swift · SQL · Bash

APIs, backend, and data: FastAPI · REST APIs · PostgreSQL/pgvector · SQLite · Redis · Docker · Git · GitHub Actions · automated testing · CI

AI and integrations: LLM APIs · tool calling · MCP · embeddings · RAG ingestion and retrieval · source citations · multi-provider integrations

Interfaces: React · Next.js · Jetpack Compose · SwiftUI · HTTP/SSE · responsive web interfaces · operator dashboards

RELEVANT EXPERIENCE

Software Engineer — Independent Projects, NextEleven LLC

September 2025–Present · Mansfield, Texas / Remote

- Built and published **12 applications on Apple's App Store through NextEleven** across productivity, utilities, lifestyle, commerce, wellness, and specialized operator workflows.
- Designed and built a complete modern, bilingual web presence for **JP Transmission Recycling**: buyer and seller paths, responsive presentation, routed inquiry flow, Ask JP assistance, and a solid foundation for a separately scoped future e-commerce, inventory, and checkout phase.
- Diagnosed and repaired Windows-specific CI failures in a Rust coding agent, correcting timeout and path-handling behavior without weakening release gates; the current GitHub Actions matrix passed all 11 jobs, including Windows build, release, lint, and test checks.
- Built NextEleven Harness, a proprietary public proof of concept with exact provider/model routing, sandboxed tools, MCP, SQLite-backed sessions, parallel workers, security documentation, HTTP/SSE interfaces, and a **376-test** binary suite.
- Developed PersonalRAGVault, an MIT-licensed Python application with document ingestion, hybrid keyword/vector retrieval, reranking, citations, FastAPI/SSE access, retrieval evaluation, automated tests, and user documentation.

Independent Software Consultant — Confidential Client Engagement

2025 · Remote

- Completed private-client contract work spanning two substantial software systems, translating leadership requirements into architecture, tested software, demonstrations, and technical specifications.
- Designed and built a multi-location dealership parts and inventory system with Python, FastAPI, PostgreSQL/pgvector, Redis, and Next.js, including search, order and invoice workflows, operator dashboards, and fail-closed external integrations.
- Implemented a second multi-component applied-AI system across Kotlin/Jetpack Compose and Python/FastAPI, integrating retrieval, workflow orchestration, multi-device services, and explicit human-review and escalation paths.

Independent Tattoo Artist and Shop Owner

January 1998–August 2025 · Texas · Spookshow Tattoo owner, 2006–2014

- Managed a high-trust client practice through consultation, requirements discovery, expectation setting, design iteration, scheduling, delivery, aftercare, and long-term relationships.
- Operated Spookshow Tattoo from 2006–2014, handling customer intake, difficult conversations, shop standards, day-to-day operations, and time-sensitive client needs.

SELECTED DELIVERY EVIDENCE

Web presence: JP Transmission Recycling — complete modern bilingual public foundation with clear buyer/seller paths, inquiry routing, and future commerce intentionally deferred to a separate scope.

Applied AI and developer tooling: NextEleven Harness — Rust terminal agent with user-owned provider/model routing, MCP, sandboxed repository tools, local interfaces, and 376 tests. PersonalRAGVault — local-first Python retrieval application with citations and formal evaluation.

Client systems: Confidential dealership workflow system and applied-AI workflow system — identities and commercial outcomes withheld; completed engineering and delivery work described above.