

# SEAN TRAYNOR

Brooklyn, NY · (914) 255-7833 · [sptraynor2001@gmail.com](mailto:sptraynor2001@gmail.com) · [LinkedIn](#)

## SUMMARY

---

AI Solutions Engineer with 2+ years designing and delivering production AI systems (multi-agent orchestration, RAG pipelines, and LLM evaluation) for enterprise stakeholders across property tech, neuroscience, and education. Translates complex business requirements into scalable AI architectures, presents technical solutions to leadership, and drives adoption from POC to production deployment. Founder with hands-on experience in go-to-market strategy, vendor operations, and cross-functional collaboration.

## EDUCATION

---

### Tufts University

*B.S. in Computer Science*

**Medford, MA**

*May 2024*

**Honors:** Dean's List, 3x Academic All-Conference, 2023 Academic All-District

**Athletics:** Men's Varsity Soccer (NCAA) — 2019 National Champion, 2x Conference Champion, All-Conference & All-Region, 2-Year Captain

## EXPERIENCE

---

### Makena

*Software Engineer, Mobile, AI, AR [Swift, ARKit, Python, Java, PostgreSQL]*

**Remote**

*Sep 2024 – Mar 2026*

- Led technical discovery with stakeholders to scope requirements for an internal RAG chatbot designed to reduce onboarding friction and support requests for non-technical appraisers; presented adoption roadmap to leadership and built end-to-end as sole engineer
- Architected premium subscription and payment system spanning web and mobile, navigating evolving compliance regulations; developed adoption strategy that enabled 2,000+ appraiser clients to onboard within one week
- Engineered the “Digital Clone” AR pilot project targeting real estate enterprise clients for remote inspections and walkthroughs; translated complex end-user workflows into model routing architecture and led AI capability training for the engineering team

### Columbia University, Language & Memory Test

*Full-Stack iOS Engineer & Project Lead > Advisor [Swift, Python, Flask, MongoDB]*

**New York, NY**

*Dec 2022 – Present*

- Advised cross-cultural research teams across Africa, Europe, and Asia on technical requirements, aligning deployment strategy for global pilot studies reaching 4,000+ patients
- Built secure REST API and managed full-stack operations, systematically contributing to NIH grant approval and publication in [The European Journal of Neuroscience](#)

### Scale AI

*AI Consultant [Python, Java, JavaScript, C, Swift, TypeScript]*

**Remote**

*Feb 2024 – Jul 2024*

- Operated as a Lead Analyst within an evaluation pipeline tuning foundational code-generation LLMs for leading enterprise AI organizations
- Designed evaluation rubrics, clarified technical guidelines, and executed QA validation on peers’ technical outputs across 8 generative AI projects
- Assessed 500+ code-centric LLM responses across multiple languages, providing structured technical signal critical for tuning production models

## PROJECTS

---

### Master OS, Personal AI Operating System

Architect & Operator [Python, Anthropic SDK, Claude Code, MCP, bash hooks]

Jan 2026 – Present

- Designed and operates a production AI operating system spanning 9 git repositories and 7 business domains (Sandbox, UMANO, VioletStudios, Suite52, AIQuantify, MaxProduct, Personal); single `/start` command drives a full session loop: parallel scouts, interview, ticket drafting, and brand-isolated executor dispatch
- Shipped Phase 6 hybrid orchestration (2026-05-07): multiple Claude Sonnet ticket-executors run concurrently in isolated git worktrees with a verifier subagent and FSM-gated FF-merge pipeline; trust boundaries enforced by PreToolUse hooks, not model compliance
- Scale: 168+ wiki pages, 261+ passing tests, A 19/19 system\_doctor grade; distillation pipeline promotes session learnings into durable brand wikis daily

### SandboxOS, AI Business Operating System (Sandbox)

Co-Founder, AI Architect & Lead Developer [Claude Code, MCP, Python, OpenRouter, Docker] Jan 2026 – Present

- Designed scalable AI architecture for a client's education business, translating non-technical requirements into a production multi-agent operating system powering a 72-lesson curriculum
- Orchestrated 9 specialized agents with tiered model routing, human-in-the-loop gates, and a centralized Notion command center, automating the production of 28 assets per 14-day cycle

### Bloom & Petals (VioletStudios), AI Music Platform & Audio Plugin Suite

Architect & Lead Developer [Next.js, FastAPI, C++20, JUCE, Claude Code]

Jan 2026 – Present

- Architected an AI-driven platform and a suite of real-time C++ audio plugins translating complex DSP algorithms into actionable feedback and simulated environments for creators, leveraging agentic workflows to aggressively compress development and deliver functional POC demos within a single weekend

## SKILLS

---

**AI & ML:** Multi-Agent Orchestration, RAG Architecture, LLM Evaluation, Prompt Engineering, AI Safety & Ethics, Agentic Workflows, MCP

**Platforms & Tools:** AWS, Cloudflare, Docker, Kubernetes, Pinecone, LangChain, Claude Code, OpenRouter

**Languages:** Python, Swift, TypeScript, SQL, C++, Java

**Consulting & Delivery:** Technical Discovery, Solution Architecture, Stakeholder Presentation, Requirements Analysis, Cross-Functional Collaboration, Technical Documentation, Go-to-Market Strategy

## LEADERSHIP & ACTIVITIES

---

### UMANO, Founder

Jan 2025 – Present

Founded independent record label and events company; managed artist branding, go-to-market strategy, and vendor operations across 6 cities (New York, Boston, Madrid, Marbella, Cartagena, San Diego)

### Suite 52, Producer & Performer

Jan 2021 – Present

1M+ streams; negotiated record deals with labels in the US and Europe; performed at events in 5+ countries