

SIDNEY FERREIRA

AI Engineer · Voice & Agent Systems · Founder, Eidola Labs

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Voice AI engineer with production agent experience and a published cognitive-collaboration framework. Promoted intern → full-time at JasperVOCAL on delivery quality alone, shipping multi-prompt Retell AI agents with CRM and booking integrations. Currently founding Eidola Labs and operating FIELD (aifield.tech) — a five-mode AI orchestration platform on Next.js 16 / React 19 / Supabase, AI-collaboratively authored at production scale. Bilingual (English / Brazilian Portuguese). CS Honours (AI focus), University of Manitoba.

EXPERIENCE

Founder & Engineer · *Eidola Labs*

Feb 2026 – Present

Independent AI research studio. Architected and shipped FIELD, a multi-mode agent platform in live Preview with paying users.

- Designed and shipped a five-mode AI orchestration platform (Wander, Build, Metabolize, Attune, Rehearse) with mode-specific prompting, state, and routing logic
- Built multi-provider LLM backend with three-layer content safety pipeline, AES-256-GCM client-side encryption, and Supabase Auth + RLS
- Engineered real-time session layer using Supabase Edge Functions, real-time subscriptions, and Zustand state management with sessionStorage persistence
- Authored full codebase in TypeScript strict mode using Cursor + Claude Code at production scale — shipping at 10× conventional pace without compromising type safety
- Stack: Next.js 16, React 19, TypeScript, Tailwind CSS v4, Zustand, shadcn/ui, Three.js / R3F, Web Audio + GLSL, Supabase, Vercel, GitHub Actions
- Companion iOS port in active planning via Expo / React Native

Voice AI Engineer (Intern → Full-time) · *JasperVOCAL*

May 2025 – Feb 2026

Promoted to full-time from internship based on delivered work — no formal review cycle.

- Designed and deployed production voice AI agents on Retell AI for client-facing call automation
- Built multi-prompt agent architectures with conditional handoff logic, persistent state, and tone control across thousands of live calls
- Integrated GoHighLevel CRM and Cal.com booking APIs for real-time call routing and outcome capture
- Authored custom API endpoints for post-call analytics, enabling the team to triage failures and iterate on prompt design
- Owned prompt engineering across multiple deployed agents — tuning for reliability, persona consistency, and graceful fallback

Academic Advisor & Junior Developer (concurrent roles) · *University of Manitoba*

2023 – 2025

- Student-facing advising and internal tooling work across two departmental roles, alongside Honours coursework

SELECTED PROJECTS

FIELD — Human-AI Cognitive Collaboration Framework aifield.tech · [GitHub](https://github.com)

- Five-mode AI orchestration framework grounded in active inference, extended mind theory, and basal cognition
- Multi-provider LLM backend with content safety, encrypted artifacts, and real-time session state
- Launched Preview phase March 2026; first live sessions confirmed product-market fit for cognitive-tools category

SOMASTIADORE — Research Paper (in submission)

- Single-author submission to Neuroethics (Springer) topical collection on AI and neurotechnologies, May 2026
- Develops the concept of sub-threshold autonomic colonization by AI-generated content — a Friston / Clark / Levin synthesis with engineering implications for agent design

TECHNICAL SKILLS

- **Agent / AI:** Retell AI · LLM APIs (Anthropic Claude, OpenAI) · multi-prompt agent architectures · function calling · prompt engineering · eval design · content safety pipelines · voice AI · CRM and booking-API integration · Cursor + Claude Code (production)
- **Languages:** TypeScript (strict) · JavaScript · Python · SQL
- **Frontend:** Next.js 16 · React 19 · Tailwind CSS v4 · Zustand · shadcn/ui · Three.js / R3F · Web Audio · GLSL
- **Backend:** Supabase (Auth, RLS, Edge Functions, Realtime) · PostgreSQL · Node.js · REST APIs
- **Infrastructure:** Vercel · GitHub Actions · CI/CD · Expo (in progress)
- **Spoken languages:** English (native) · Brazilian Portuguese (native) · Spanish (reading)

EDUCATION

University of Manitoba · Bachelor of Computer Science (Honours), Artificial Intelligence focus Winnipeg, MB
Minors in Music and Psychology. Coursework spanning machine learning, distributed systems, HCI, and cognitive science.