

# JOAQUIN ALVAREZ

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## SUMMARY

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Software engineer focused on **real-time voice AI agents**: full STT → LLM → TTS pipelines, low-latency streaming, and production deployments. AI-native engineer: architects the system, directs coding agents across the stack, and owns every layer of the result (frontend, backend, infrastructure). Previously at a Y Combinator startup, owning the entire product frontend and contributing across the stack; currently building an open-source voice AI product used in 9+ countries.

## EXPERIENCE

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### Talkeo (talkeo.ai)

Apr 2026 – Present

*Founder & Engineer. Open-source AI voice tutor: real-time conversational voice agents for language learning (github.com/talkeo-ai)*

- Built the end-to-end real-time voice pipeline: WebRTC (LiveKit) → STT (Soniox, Deepgram fallback) → LLM (multi-provider via adapter layer: Gemini, Claude, OpenAI) → TTS (Fish Audio, ElevenLabs fallback), with **<900 ms voice-to-voice latency** and live language switching across 5 language pairs.
- Designed the backend as a **modular monolith** (Python, FastAPI, hexagonal architecture: provider ports, adapters, registry) split into 3 services with independent scaling profiles: API, realtime voice agent, and a queue-worker dispatcher (PostgreSQL **SKIP LOCKED**).
- Runs in production on **AWS**: ECS Fargate (3 services), ALB, Terraform, GitHub Actions CI/CD with OIDC.
- Frontend and admin dashboard in **Next.js 15, TypeScript and Tailwind**; auth and data on Supabase (PostgreSQL); payments live (dLocal).
- Built the **macOS desktop client (Swift, AppKit)**; leads contributors on the open-source organization (Windows WPF client, infra, agents, MCP server).
- Users across **9+ countries**, 3 custom bilingual voices.

### Notte (YC S25)

Mar 2025 – Apr 2026

*Software Engineer. AI web-agents startup for enterprise (US, remote).*

- Sole engineer on the frontend: owned every UI surface across the product (console, landing pages, blog, Chrome extension) with React, Next.js and TypeScript, from design to production.
- Shipped two product launches end to end: **Demonstrate Mode** and **Deployed Functions**.
- Backend contributions in **Python / FastAPI**, including **anything-api**.
- Implemented real-time voice features over WebRTC.
- Worked directly with the founders (CEO and CTO) in an early-stage, high-turnover environment.

## TECHNICAL SKILLS

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|-----------------------|---|
| <b>Voice / AI</b>     | LiveKit · WebRTC · STT (Soniox, Deepgram) · TTS (Fish Audio, ElevenLabs) · multi-provider LLM integration (Gemini, Claude, OpenAI) · agent orchestration (Claude Code, multi-agent workflows) · MCP |
| <b>Backend</b>        | Python · FastAPI · PostgreSQL · Supabase · Node.js  |
| <b>Frontend</b>       | Next.js 15 · React · TypeScript · Tailwind CSS  |
| <b>Infrastructure</b> | AWS (ECS Fargate, ALB) · Docker · Terraform · GitHub Actions (OIDC) · Vercel  |

## EDUCATION

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Universidad Nacional del Este, Systems Engineering (in progress)

**Languages:** Spanish (native) · English (professional)