

Elias Jimenez Diz

Full Stack Engineer · TypeScript · Node.js · AI Agents

Medellín, Colombia · +57 301 328 1320 · eliasj.diz@gmail.com · linkedin.com/in/elias-jimenez-diz · github.com/eliasdiz

SUMMARY

Full Stack Engineer with 4+ years in TypeScript, Node.js and React, currently technical lead at Geeks5G across three production products. I build AI agents that hold real conversations and call tools to get work done, and the event-driven backends behind them — webhook integrations across Twilio, OpenAI, Stripe and Meta, multi-tenant SaaS with billing, on both serverless (Firebase/GCP) and containerized (NestJS/PostgreSQL) stacks. I've taken products from zero to production and rescued one that had stalled.

EXPERIENCE

Technical Lead / Full Stack Engineer — Geeks5G

Jan 2025 – Present · Remote

Technical lead across three products. Own architecture, data modeling and code quality standards; mentor junior developers.

Platform Connection — multi-channel AI agent platform

- Built the AI agent layer on the OpenAI Assistants API and VAPI so one configured assistant serves web chat, WhatsApp, SMS and live phone calls without duplicating logic per channel.
- Implemented **tool / function calling** so agents act rather than only answer: capturing lead information mid-conversation, booking appointments on Google Calendar, pushing contacts to CRM, and triggering live transfer to a human when a lead qualifies.
- Built an outbound AI calling system with concurrent call management, answering-machine detection, transfer queues, and a post-call loop that analyzes outcomes and rewrites the assistant's prompt.
- Designed a webhook-driven, event-driven architecture unifying Twilio, VAPI, OpenAI, Meta (Messenger / Lead Forms), Slack and GoHighLevel behind a single event model.
- Architected the backend on Firebase Cloud Functions Gen 2 — HTTP webhooks, callable functions, database triggers and scheduled jobs — with Cloud Run for workloads that exceed function limits.
- Architected multi-tenant RBAC and built usage-based billing: subscriptions, plan add-ons and a voice-credit economy driven by webhooks and scheduled jobs.

Stack: TypeScript · Node.js 20 · OpenAI · VAPI · Twilio · Firebase Cloud Functions · Firestore · Cloud Run · Next.js · React · Docker

ProAxis — AI receptionist for a pay-per-call marketplace

- Built an AI receptionist that answers calls buyers miss: picks up after a configurable ring count, classifies caller intent mid-call, and live-transfers with timeout handling and answering-machine detection.
- Built agent tools for lead capture and appointment booking — identity and address capture, timezone-safe calendar slots, confirmation emails, full call transcripts.
- Integrated a self-hosted real-time voice engine (Python, Pipecat, Twilio Media Streams) into call routing and extended it with live transfer, calendar tools and OpenAI Live model support.
- Delivered market intelligence (geo heatmap, demand aggregation, radius search) and CRM modules (sales pipeline, commission engine, referral portal).

Stack: Next.js · Node.js/Express · Prisma · PostgreSQL · VAPI · Twilio · Python/Pipecat · Stripe · AWS S3 & Textract

Charge Home Solutions — field-service dispatch platform

Joined a stalled codebase and drove it to completion — ~356 commits and ~39,500 lines across backend and frontend in four months, closing out both repositories.

- Built the SMS dispatch engine: prioritized job offers, fallback broadcast on expiry, reply parsing, scheduled timeout handling, and resolution of ambiguous replies when one phone number maps to several active jobs.
- **Cut SMS cost ~49%** — traced inflated carrier billing to en-dash characters silently forcing UCS-2 encoding and doubling segment counts; reworked all 26 templates from 51 segments to 26.
- Made scheduling timezone-correct from customer zipcodes, with quiet-hours gating for US messaging compliance.
- Owned invoicing, contracts and a 3-tier Stripe subscription system with trials, ACH and webhook-driven lifecycle; built 9 admin dashboard modules in Next.js 15 / React 19.

Stack: NestJS · TypeScript · TypeORM · PostgreSQL · Stripe · Twilio · Next.js · React 19 · Docker · GitHub Actions

Full Stack Developer — Freelance & agency projects

Mar 2022 – Dec 2024

Delivered MERN applications end to end for small businesses: appointment booking, admin back-offices, e-commerce and PDF document generation. Clients included Barbería Ollín, Markaribe Group and Viajes Multidestinos.

Stack: MongoDB · Express · Node.js · React · Redux · Tailwind CSS

TECHNICAL SKILLS

Languages: TypeScript, JavaScript

AI & Agents: OpenAI (Assistants, Realtime), VAPI, tool / function calling, agent design, prompt iteration from production outcomes

Backend: Node.js, Express, NestJS, REST APIs, webhook-driven and event-driven architectures, scheduled jobs

Serverless & Cloud: Firebase Cloud Functions Gen 2, Cloud Run, Google Cloud, AWS (S3, Textract), Docker, GitHub Actions, Vercel

Frontend: React 18/19, Next.js 14/15, Redux, Tailwind CSS, shadcn/ui, Material UI

Databases: MongoDB, PostgreSQL, Firestore

Integrations: Twilio (Voice SDK, Media Streams, SMS), WhatsApp, Meta Messenger / Lead Ads, Google Calendar, Stripe, PayArc

Also worked with: TypeORM, Prisma, Socket.io, Python

EDUCATION

Full Stack Web Developer (MERN) — MindHub LA Bootcamp · 2023

Business Administration — Universidad Cooperativa de Colombia · 2013 – 2017

Tecnólogo en Sistemas — SENA

Languages: Spanish (native) · English (B2, upper-intermediate)