

JESUS DANIEL GOMEZ HERNANDEZ

Product Engineer | Backend & AI | Node.js / TypeScript

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PROFESSIONAL SUMMARY

Product Engineer with 8+ years of experience building production software across logistics, fintech, insurance, and media platforms. Strong background in Node.js, TypeScript, distributed systems, cloud services, and full-stack product development, with experience taking features from requirements and design through implementation, testing, deployment, and production support. Currently applying AI engineering techniques through hands-on development of RAG systems, LLM applications, and agentic development workflows.

CORE SKILLS

Product Engineering: End-to-End Feature Development · API Design · System Design · Technical Problem Solving · Production Troubleshooting

Backend: Node.js · TypeScript · Express · NestJS · Microservices · Event-Driven Architecture · OpenAPI · Exegesis

Frontend: React · Angular · Vite · React Native · Expo

Cloud & Data: Azure · GCP · AWS · PostgreSQL · MySQL · MongoDB · Redis · Docker · Kafka

AI Engineering: RAG · LLM Applications · Embeddings · Vector Databases · AI Evaluation · Claude Code · Agentic Development

Quality & Delivery: Jest · Cypress · E2E Testing · GitHub Actions · CI/CD · Datadog · OpenTelemetry · LaunchDarkly

PROFESSIONAL EXPERIENCE

Limestone Digital — Product Engineer | Apr 2024 – Present

Client: OneRail — US-based logistics platform

- Develop end-to-end product features across Node.js/TypeScript microservices and React applications for a last-mile logistics platform.
- Build OpenAPI-first APIs and shared contracts using Express, Exegesis, and TypeScript, supporting deliveries, authentication, carrier integrations, and multi-dispatch workflows.
- Work across Azure services and data infrastructure including Service Bus, Event Hubs, Cosmos DB, MySQL, Redis, and Blob Storage.
- Investigate production issues end to end using code, PRs, Slack, Datadog, and observability tooling, delivering tested changes through CI/CD.
- Use Cursor and ChatGPT for technical analysis, planning, debugging, and code generation while maintaining engineering and quality standards.

Globant — Node.js SSR Developer | Jun 2022 – Dec 2023

- ViX — Streaming Platform | US Market — Developed Node.js/NestJS backend services and serverless workflows using GCP Cloud Functions, Pub/Sub, and Cloud Tasks, supporting metadata processing for 80K+ VOD assets.
- ViX — Contributed to GCP infrastructure, IAM, and VPN configuration while improving deployment reliability and observability with New Relic.
- ViX — Worked with MongoDB and Redis across data-intensive content processing services.
- Laureate — Conducted system archaeology across multiple university implementations to identify common patterns and support the design of a unified admission platform.
- Laureate — Developed scalable Node.js services using NX, MongoDB, and Redis to centralize admission processes and reduce duplicated development.

IAS — Advanced Backend Developer | Oct 2018 – Jun 2022

Medellín, Colombia

- SURA — CORE: Contributed from the early stages, participating in requirements analysis, estimations, technical design, and development of the first MVP for an enterprise insurance sales platform.
- SURA — Worked as a full-stack engineer, primarily with Angular and also contributing to Java/Spring Boot and Scala services.
- SURA — Progressed into a technical design role, collaborating with Product to translate business requirements into technical solutions and supporting development teams with implementation guidance.
- SURA — Contributed to digital insurance workflows supporting real-time quotations and end-to-end policy purchases, reducing manual sales dependency by 30% and improving operational efficiency by 40%+.
- SURA — Helped scale the platform to support 100K+ digital policy transactions.
- Bancolombia — Modernized legacy banking modules by analyzing existing code and migrating functionality to Java/Spring Boot services.
- Bancolombia — Participated in Agile/Scrum delivery, requirements clarification, testing, and validation of migrated functionality.

PersonalSoft — Java Developer | Jan 2017 – Oct 2018

Medellín, Colombia

- Modernized legacy banking modules by migrating functionality from IBM iSeries (AS/400) to Java 8 services.
- Contributed to modularizing legacy systems and reducing technical debt while maintaining existing business functionality.

SELECTED PROJECTS

WaveMark — Founder & Sole Developer / 2026 – Present

- A web application for creating smart bookmarks on audio content. Users can upload an audio file, visualize and navigate its waveform, play specific sections, and save exact moments with timestamps, comments, and bookmark types for quick reference.
- Designed for creators, editors, and teams reviewing or collaborating on audio content; currently in closed beta.
- Built end to end with React, TypeScript, Supabase/PostgreSQL, and Cloudflare Workers, using a privacy-first architecture where audio remains on the user's device and only metadata is synchronized.

Conversation Memory Assistant — Personal AI Agent / 2026

- A personal AI assistant that lets users search and ask questions about WhatsApp conversation history using natural language.
- Designed and implemented a RAG-based AI agent to query 8,200+ WhatsApp messages using contextual chunking, metadata filtering, and pgvector semantic search; initial indexing cost \$8.20
- Built the backend with Node.js/TypeScript, PostgreSQL, Drizzle ORM, Docker Compose, Voyage AI embeddings, and the Anthropic API.
- Developed a 100-question regression framework to validate LLM grounding against retrieved evidence while tracking intent, latency, and AI costs; full regression run cost \$1.38.

EDUCATION

Master in Systems Engineering — Politécnico Colombiano Jaime Isaza Cadavid
Systems Technology — SENA

LANGUAGES

Spanish: Native · English: B2 · French: Basic