

Heyder Manuel Ix Medina

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Mobile: +52 999 266 1174
Location: Mexico (Open to Remote)

Professional Summary

Software Developer with hands-on experience in frontend and fullstack web development. Skilled in frontend technologies as React, Next.js, Astro.js. Experience building real-world applications with authentication, dashboards, REST APIs, and database integration. Strong interest in clean code, scalable architecture, and continuous learning.

Technical Skills

Frontend: HTML5, CSS3, JavaScript, TypeScript, React, Next.js, Astro.js, TailwindCSS, Bootstrap, Vite
Backend: Node.js, Express.js, REST APIs, JWT Authentication, C#, Python, .NET
Databases: PostgreSQL, MySQL, MongoDB
Tools: Git, GitHub, Postman, Figma, VS Code, Android Studio, Docker
Mobile: Flutter, Dart, React Native

Work Experience

Fullstack Web Developer
Mayan Life Real Estate
April 2025 – August 2025

- Developed a fullstack real estate web platform using Next.js, Node.js, Express, and PostgreSQL.
- Built authentication and authorization using JWT and role-based access control.
- Implemented internal dashboards for agents to manage properties.
- Integrated image upload functionality and advanced property filters.
- Co-engineered a fullstack real estate platform under Agile/Scrum methodologies, improving feature delivery speed by implementing a modular React/Next.js architecture
- Designed and implemented a modular component-based architecture (React/Next.js) to enhance UI reusability and development speed.
- Worked closely with frontend and backend components to ensure scalable and maintainable architecture.

Featured Technical Projects

Keidot – Mobile Application (Flutter)

- Developed a cross-platform mobile app using Flutter and Dart.
- Implemented REST API integration with PostgreSQL backend.
- Designed user interface based on Figma prototypes.
- Tested API endpoints using Postman.

SpaceX Dashboard – Web Application (Next.js, Tailwind, TypeScript)

- Developed a responsive web dashboard using Next.js, React, and TypeScript.
- Integrated the official SpaceX Public API to fetch and display real-time launch data.
- Optimized data loading performance using Next.js Server-Side Rendering (SSR) to fetch and render real-time launch data efficiently.
- Built sorting functionality (ascending/descending) and structured launch views.
- Applied clean architecture principles with centralized API logic and modular folder structure.

Tasker Studio – Web Application (Next.js, Tailwind, TypeScript)

- Developed a full-stack task management application utilizing Next.js (App Router), React, and TypeScript.
- Implemented robust route protection and custom JWT authentication, ensuring secure role-based access control for administrators and students.
- Integrated a serverless PostgreSQL database via Neon.tech and managed data modeling seamlessly with Prisma ORM.
- Engineered a highly responsive user interface using "Optimistic UI" patterns, Framer Motion for smooth animations, and Sileo for dynamic toast notifications.
- Configured automated email services using the Resend API and successfully deployed the application on Vercel.

Keidot AI Assistant – Fullstack RAG Chatbot (Next.js, TypeScript, Node.js, LangChain, ChromaDB)

- Engineered a production-ready AI customer-support assistant combining a hybrid RAG architecture (LangChain, ChromaDB, PostgreSQL, Llama 3.2 via Ollama) with an agentic tool-calling layer that executes real business operations such as quoting services, checking availability, and scheduling appointments.
- Designed a permissioned tool registry (READ_ONLY / WRITE) where every tool call is validated with Zod schemas, and write operations require explicit human-in-the-loop confirmation through expiring tokens, preventing unauthorized database mutations.
- Developed a real-time streaming chat interface using Server-Sent Events (SSE), Next.js (App Router), React 19, and Auth.js authentication, rendering structured markdown responses with smooth animations via Framer Motion.
- Hardened the system against LLM-specific threats by implementing layered defenses: regex and semantic guardrails against prompt injection and policy exfiltration, JWT-bound identity checks to prevent BOLA attacks, per-endpoint rate limiting, and reCAPTCHA v3.
- Deployed the application end-to-end on Vercel with containerized backend services using Docker, ensuring reproducible builds and environment parity.

Education

B.S. in Software Development and Management Engineering
Universidad Tecnológica Metropolitana — 2025
Associate Degree in Information and Communication Technologies
2023 – 2025
Professional Technical High School Degree in Computer Science
CONALEP Mérida I
2020 – 2023

Languages

Spanish: Native
English: B2 – Cambridge, 2025