Adolfo Hernández Signoret

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EDUCATION

Tecnológico de Monterrey (ITESM)   Aug. 2022 – June. 2026 (expected)
B.S. in Computer Science and Technology GPA: 94/100   *Guadalajara, México*

WORK EXPERIENCE

Adokin Codeveloper | *Guadalajara, México*   May. 2024 – Present
- Developing a Next.js progressive web app using MongoDB to allow groups of people to manage projects, whiteboard notes, bill tickets, photos, and products in a shared ecosystem.
- Programmed a real-time chat with multiple conversations using websockets via Socket.IO and Express to allow different users to communicate, share photos, documents, or bill tickets, enhancing the user experience by seamlessly feeding the database.
- Constructed a whiteboard file manager leveraging the Excalidraw open-source project and DigitalOcean bucket storage in the cloud, enabling the creation and sharing of whiteboards among group members.
- Incorporated a Dashboard for data visualization, utilizing role-based authorization to enable group members to view photos and bills based on specific dates, projects, or authorized access levels.

JMO Arquitectos Freelance web developer | *Guadalajara, México*   Jan. 2024
- Crafted a Nextjs static web page with minimalistic design for an architect's office.

PROJECTS

Xavio | *Nextjs, Mongodb Atlas, PostgreSQL, Express, OpenAI API*   Apr. 2024 - Present
- Developed a learning platform utilizing Next.js and MongoDB for both supervised courses and self-paced continuous-learning courses, integrating AI to generate multiple-choice quizzes, tasks, explanations, and external link references.
- Implemented custom MFA (Multi-Factor Authentication) using Auth.js and PostgreSQL, enabling users to save their progress and courses securely.
- Engineered real-time chats for supervised courses using websockets, allowing course members to communicate. Coded the feature for supervisors to dynamically generate new content, such as tasks, quizzes, or explanations, and deliver them to course participants.
- Architected a monolithic project structure using Next.js server actions for data mutations, incorporating Zod validations to streamline DevOps complexity.

BoxyFy | *Python, Flask, Supabase, Arduino*   Nov. 2023 – Dec. 2023
- Prototyped a vending machine remote tracking system on Arduino using an ESP32, and displayed the real-time data on a Python Flask dashboard.

AI ally | *Python, Streamlit, Supabase, OpenAi API*   Sep. 2023
- Participated in the HackMTY hackathon at Tecnológico de Monterrey campus Monterrey, collaborating with three colleagues to develop a suicide prevention chatbot that functions as a digital waiting room with integrated risk assessment.
- Implemented a sorting system using merge sort for patients based on their suicide risk using a pre-built form to assist healthcare professionals.

LEADERSHIP

VALIA   Aug. 2023 – June. 2025 (expected)
- Pursuing a diploma in Business Ethics.

TECHNICAL SKILLS

Languages: Python, C++, Rust, TypeScript
Frameworks: React, Flask, Next.js, Express
Developer Tools: Git, Github, MongoDB, MySQL, Vercel, VS Code, OpenAi API, DigitalOcean
Libraries: openai, mongoose, tailwindcss, bcryptjs, socket.io, authjs, prisma, Streamlit