

Adolfo Hernández Signoret

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EDUCATION

Tecnológico de Monterrey (ITESM)

B.S. in Computer Science and Technology GPA: 94/100

Aug. 2022 – June. 2026 (expected)

Guadalajara, México

WORK EXPERIENCE

Agrobazar Codeveloper at Grupo Victor | *Guadalajara, México*

Dec. 2024

- Created an ecommerce platform for industrial machinery and products using Next.js' SEO tools and PostgreSQL's elastic search to enhance user experience
- Powered an internal admin CMS using a visual editor "canva style" using complex react client components and the Clerk Wrapper to allow for realtime content manipulation by authenticated users.

Detallacar California Codeveloper | *Guadalajara, México*

Dec. 2024

- Produced an internal and responsive dashboard with twilio integration and whatsapp messages replication systems using Next.js, PostgreSQL and Twilio API with automated messages to improve the advisor-client communication
- Followed the OWASP 20 security guideline using both encryption and hashing systems as well as other safety procedures to ensure a proper app use.

Adokin Codeveloper | *Guadalajara, México*

May. 2024 – Aug. 2024

- 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.

LEADERSHIP

VALIA

Aug. 2023 – June. 2025 (expected)

- Pursuing a diploma in Business Ethics.

TECHNICAL SKILLS

Languages: Python, C++, TypeScript, Golang

Frameworks: React, Next.js, Flask, FastAPI, Express

Developer Tools: Git, Github, MongoDB, MySQL, PostgreSQL, DigitalOcean, Docker, Linux **Libraries:** agentpy, openai, mongoose, tailwindcss, bcryptjs, socket.io, jwt.io