

Juan Carlos Martinez Zacarias

+52 (496) 141 0811 | juancmtz777@gmail.com | LinkedIn/jcarlosmtzz | jcarlosmtzz.github.io

PROFESSIONAL PROFILE

Software Engineer with strong academic achievement and proficiency in programming languages, databases, APIs and web and mobile Apps acquired through an internship and several software development projects.

EDUCATION

Instituto Tecnológico y de Estudios Superiores de Monterrey (ITESM)

Monterrey, Mexico

B.S. in Computer Science and Technology. GPA: 3.9/4.0 | 99/100

Aug. 2020 – June 2024

- Graduated with Highest Honors (Summa cum laude).
- Lideres del Mañana Scholarship: awarded a 100% scholarship for outstanding abilities and potential.

EXPERIENCE

Atos

Remote work

Back End Development Intern

Aug. 2023 – Dec. 2023

Collaborated on the management, requirement analysis, design, implementation, and optimization of a distributed Back End in .NET with C#, SQL Server, AWS, the SOLID principles, Clean Architecture, Design Patterns, and Scrum.

- Created an abstraction layer to implement the Repository Pattern with NoSQL databases.
- Improved quality of microservices by reducing bugs, vulnerabilities, and code smells to 0.

PROJECTS

Car Auctions App

Nov. 2024 – Jan. 2025

Microservices-based application for managing car auctions, enabling users to browse and filter available auctions, place bids, create new auctions, and manage their auctions through a web interface.

- Tech stack: Next.js, Zustand, .NET, MongoDB, PostgreSQL, RabbitMQ, Docker, Kubernetes, xUnit, YARP.
- Enhanced fault tolerance and consistency between microservices through Polly and the Outbox Pattern.

Carpinteria Mtz

Sep. 2024 – Oct. 2024

Web application showcasing the furniture catalog of Carpinteria Mtz. Users can explore various categories, search, view, and save their favorite items. Administrators can authenticate and manage the catalog.

- Tech stack: Next.js, Material UI, Tailwind CSS, NextAuth.js, PostgreSQL, Oracle Cloud object storage.
- Streamlined customer acquisition by providing an easily accessible digital showcase of completed works.

InVenta

July 2024 – Aug. 2024

Responsive web application designed to enhance the management of sales and inventory for a small business, centralizing the visualization of products and tracking sales made by administrators.

- Tech stack: React, Tailwind CSS, Node.js, Express, Sequelize, PostgreSQL, Oracle Cloud object storage.

Sign Language System for John Deere

Monterrey, Mexico

Full Stack Developer

Sep. 2022 – Nov. 2022

Collaborated on the development of a learning and monitoring system for Mexican Sign Language through an Android App and a Web App, following the waterfall development model.

- Tech stack: Kotlin, Android Studio, React, HTML, CSS, MySQL, Node.js, Express.

COURSES

- DevOps Foundations: Continuous Delivery/Continuous Integration – LinkedIn Learning (2024).
- AWS Cloud Practitioner Essentials – AWS training and certification (2024).

SKILLS

- **Coding languages:** JavaScript, C#, SQL, C++, Python, Go, Kotlin, HTML, CSS.
- **Technologies:** .NET, Node.js, MySQL, SQL Server, PostgreSQL, ORMs, AWS, RabbitMQ, React, Next.js, React Native, Bootstrap, Tailwind CSS, Android Studio, Docker, Git/GitHub, SonarQube.
- **Natural Languages:** Spanish (Native), English (Upper intermediate).
- **Soft Skills:** Teamwork, commitment, self-taught, active listening.