

Juan Carlos Martínez Zacarías

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PROFESSIONAL PROFILE

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, México

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).
- Líderes 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

InVenta – Personal project

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.

- Technologies: ReactJS, Tailwind CSS, Node.js, Express, Sequelize, PostgreSQL, Oracle Cloud object storage.

Centro de Innovación Industrial en Inteligencia Artificial (CIIA)

Monterrey, México

Back End Developer

Apr. 2024 – June 2024

Collaborated on the development of an iOS App that detects products using computer vision and retrieves inventory information from a database to streamline retail shopping, following the incremental development model.

- Technologies: Unity, Python, FastAPI, Pytorch, PostgreSQL.

John Deere

Monterrey, México

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.

- Technologies: Kotlin, Android Studio, ReactJS, HTML, CSS, MySQL, Node.js, Express.

Arca Continental

Monterrey, México

Full Stack Developer

Feb. 2022 – Apr. 2022

Collaborated on the development of a gamified Web Application for monitoring and managing operator performance, following the incremental development model.

- Technologies: ReactJS, HTML, Bootstrap, MySQL, Node.js, Express, WebGL, Unity.

COURSES

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

SKILLS

- **Coding languages:** Python, C++, SQL, C#, JavaScript, Go, Kotlin, HTML, CSS.
- **Technologies:** .Net, Node.js, MySQL, SQL Server, PostgreSQL, ORMs, AWS, RabbitMQ, React, 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.