

Carlos Carvajal Vázquez

Full Stack | Software Developer

Software Engineer with 5+ years of experience designing and modernizing enterprise and device-based systems. Experienced in defining technical solutions from business requirements, improving system performance, and collaborating across engineering teams. Strong background in full-stack development and cloud environments.

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WORK EXPERIENCE

Senior Software Engineer Slalom - Charter

03/2025 - Present

Guadalajara - México

Highlights

- Contributed to the design and implementation of a WebSocket-based architecture for remote Smart TV control, defining structured message communication and integrating automated on-device testing to reduce manual effort and parallelize execution across multiple TV brands.
- Implemented backend services to maintain persistent connections, including watchdog mechanisms to prevent inactivity disconnections.
- Reduced application bundle size from 8MB to 5MB through build optimization and performance improvements.
- Contributed to a multi-stream live feature (up to four simultaneous streams), implementing navigation and user interface logic.

Stack : React, Node.js, WebSockets, AWS (EC2, ECS, Dynamo, S3), CLI.

Full Stack Software Developer IBM

11/2021 - 03/2025

Guadalajara - México

Highlights

- Contributed to the modernization of a monolithic Java system serving 10,000+ users, supporting scalability and real-time operations.
- Migrated two legacy Lotus Notes systems to web applications using Angular and Node.js, designing database and backend components.
- Improved report generation performance by 99.81% through process redesign.
- Enhanced and maintained enterprise applications used across Latin America.

Stack : Angular, Java, SQL (DB2), MongoDB, Node.js, Docker, IBM Cloud

Software and Database Developer DXC

11/2020 - 11/2021

Guadalajara - México

Highlights

- Contributed to the modernization of a legacy customs management system by developing new frontend modules using Angular.
- Designed and optimized Oracle database stored procedures to improve system performance and maintainability.

Stack : Oracle SQL, .Net Framework, Pascal (Delphi), Angular

Software Developer Freelance

07/2018 - 10/2020

Guadalajara - México

Highlights

- Developed backend and infrastructure for a multi-retailer price tracking web application.

Stack : React, Angular, Python, MySQL, Web scraping, System design fundamentals

SKILLS

System Design

AWS

Cloud

Agile

API

WebSockets

Frontend

Node

SQL

Backend

Microservices

PERSONAL PROJECTS

Portolio (01/2025 - 01/2025)

- My personal website

FaceLog (01/2024 - 01/2025)

- I lead the build of the real time face recognition logger system for tracking and logging time for students. Also managing the microservices in our custom server using coolify and kubernetes.

Smart LED Automation (05/2024 - 06/2024)

- Modified LED controller hardware to enable integration with home automation systems without proprietary remote dependency. IoT integration.

SearchLock (12/2019 - 11/2020)

- Created the infrastructure, backend, and database for a Price Tracker Application across multiple retailers (Amazon, Liverpool, Walmart).

EDUCATION

Computer Engineer

Universidad de Guadalajara (CUCEI)

08/2016 - 12/2021

Guadalajara - México

Electronics and Internet of Things Engineering

Universidad autonoma de Guadalajara (UaG)

06/2023 - 06/2025

Virtual - Not finished

ACHIEVEMENTS

TalentLand - Hackathon 3rd place winner

IBM - Client and Partner success (2023)

INTERESTS

IoT

Open Source

Self Hosting