

# MANUEL ABIMELEK CASTREZANA GRANADOS

Mid-Level Software Developer | Full Stack Engineer

abimelekcastrezana@gmail.com · LinkedIn · GitHub · Irapuato, Guanajuato, MX · Remote

## PROFESSIONAL PROFILE

Results-driven **Full Stack Software Developer** with 5+ years of professional experience in backend/frontend development, API design, and cloud technologies. Demonstrated expertise in **Node.js, Express.js, TypeScript, and modern JavaScript frameworks**, with a strong focus on code quality, testing, and maintainability. Currently pursuing a **Master's degree in Artificial Intelligence and Data Science**. Proven track record delivering scalable solutions for remote teams, implementing comprehensive testing strategies, and optimizing system performance.

## CORE COMPETENCIES

- Full Stack Development (Node.js / TypeScript)
- REST API Design & OpenAPI Standards
- Docker & CI/CD Pipelines
- Blockchain & Web3 / Smart Contracts
- Database Design & ORM (Sequelize)
- Agile Methodologies & Remote Work
- AI Agents & Prompt Engineering
- Technical Documentation & Testing (E2E)

## PROFESSIONAL EXPERIENCE

### Mid-Level Software Developer

Mar 2024 – Present

UNAM — National Autonomous University of Mexico · Remote

- Developed and maintained multiple **production applications** following Agile methodologies, code quality standards, and best practices.
- Engineered comprehensive **E2E testing suites**, ensuring system reliability and reducing production bugs across three key platforms.
- Designed and implemented **RESTful APIs with OpenAPI contract validation** via middleware, enabling seamless third-party integrations.
- Containerized applications with **Docker & Docker Compose**; established CI/CD pipelines to automate testing and deployments.
- Implemented **Sequelize ORM** for efficient database operations, optimizing query performance and data integrity.
- **Key projects:** Ticket Substitution System, Check Visualizer, Gas Station Billing Platform.

### Full Stack Developer

Sep 2022 – Feb 2023

Eskala Group · Remote

- Executed complete development lifecycle: requirements analysis, design, implementation, testing, and deployment.
- Built a **NFT marketplace for real estate on Polygon blockchain**: designed smart contracts, crypto payment gateways, and backend integration.
- Integrated third-party APIs and implemented **encryption strategies** for secure data handling across responsive microsites.
- Deployed applications to production servers and blockchain networks, ensuring scalability and reliability.

## ENTREPRENEURSHIP

### Founder & Developer

2023 – Present

TiendaTap · tiendatap.com · Remote

- Built **tiendatap.com**: full-featured web application for online merchandise catalogs with **WhatsApp order integration**.
- Incubated under "**Juventudes con IDEA**" program, Tecnológico Nacional de México (TecNM / ITC) — Dec 2025.
- Designed the full product stack independently: frontend, backend, database design, and cloud deployment.

## SKILLS & TECHNICAL STACK

<b>Languages &amp; Runtimes:</b>	JavaScript (Node.js), TypeScript, SQL, Lua
<b>Backend &amp; Frameworks:</b>	Express.js, REST APIs, OpenAPI Standards, Sequelize ORM
<b>Frontend:</b>	React, Next.js, modern JavaScript / TypeScript
<b>DevOps &amp; Infrastructure:</b>	Docker, Docker Compose, CI/CD Pipelines, Ubuntu Server, API Management
<b>AI &amp; Agents:</b>	AI Agents, GitHub Copilot, Prompt Engineering
<b>Blockchain &amp; Web3:</b>	Smart Contracts, NFT Development, Crypto Payment Gateways, Polygon Network
<b>Tools &amp; Platforms:</b>	Git, Postman, API Testing, Technical Documentation

## EDUCATION

<b>Master's Degree in Artificial Intelligence and Data Science</b> Universidad Virtual del Estado de Guanajuato (UVEG)	Oct 2025 – Present
<b>Bachelor of Engineering — Mechatronics, Robotics &amp; Automation</b> Universidad de Guanajuato, Salamanca–Irapuato Campus	2017 – 2023 · Graduated with Honors (Cum Laude)

## CERTIFICATIONS & TRAINING

<b>AI for Business Leaders — Harvard Professional Development</b> Harvard / HarvardX · 2026	<b>Next.js App Router Fundamentals</b> Vercel · Jan 2026
<b>React Foundations for Next.js</b> Vercel · Dec 2025	<b>The Accelerator — Certified Remote Freelancer</b> Workana · Jan 2025
<b>Curso de Agentes AI</b> Platzi · Feb 2025	<b>Curso de GitHub Copilot</b> Platzi · Mar 2025
<b>Backend con Node.js: API REST con Express.js</b> Platzi · Mar 2025	<b>Backend con Node.js: Autenticación con Passport.js y JWT</b> Platzi · Aug 2024
<b>Reglas de la IA: Cómo usarla sin riesgos legales</b> Santander Open Academy · Dec 2025	<b>Curso Profesional de Git y GitHub</b> Platzi · Mar 2023
<b>Advanced Software Testing &amp; Quality Assurance</b> Various · –	

## LANGUAGES

<b>Spanish:</b> Native	<b>English:</b> B1 Upper-Intermediate	<b>Italian:</b> A2 Elementary
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