

Roberto Jimenez

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Software Engineer specialized in backend and full-stack development with experience building production systems including CRM platforms, ticketing systems, AI-powered automation, and payment integrations. Skilled in Node.js, NestJS, React, and Python, with experience designing scalable APIs, payment flows, and event management systems.

Education

Universidad Politécnica de Durango — Software Engineering Bachelor's Degree
Aug 2020 – Apr 2024

Professional Experience

Grupo Garza Limón — Software Developer

Durango, Mexico | Jul 2024 – Present

Cosmocable — CRM Platform for ISP Operations

- Developed and maintained an internal Customer Relationship Management (CRM) platform for ISP operations using Angular and Node.js.
- Designed and implemented REST APIs with Express and Sequelize ORM with MariaDB.
- Built an electronic invoicing module with automated invoice delivery and notifications using NodeMailer and AWS SES.
- Applied Git Flow methodology to improve collaborative development and feature integration.

TaquillaVIP — Online Ticketing Platform

- Led development of TaquillaVIP using NestJS, React, PostgreSQL, and TypeORM.
- Implemented secure payment flows integrated with OpenPay preventing duplicate purchases and concurrency issues.
- Built interactive venue seat maps using SVG for dynamic seating configuration.

- Implemented ticket generation and validation systems to prevent ticket reuse.
- Developed admin tools for managing events, venues, and sales reports in PDF and Excel using pdfmake and ExcelJS.
- Integrated AWS SES for transactional emails and AWS S3 for file storage.

AI Chatbot Automation

- Redesigned the customer support chatbot using n8n with AI agents via API and integrated it into the CRM to accelerate customer information retrieval.

Data Migration and Testing

- Migrated large datasets between databases using Java Spring Boot and JPA repositories with concurrent processing.
- Implemented unit tests for critical modules and end-to-end tests for complex workflows such as the TaquillaVIP purchase process.

4+1 Creative — Data Analyst & Python Developer

Idaho, USA (Remote) | Jan 2024 – Apr 2024

- Conducted **Exploratory Data Analysis (EDA)** using **Python and Pandas** to generate documentation, datasets, and analytical reports used for decision-making in the mining sector.
- Developed **automated web scraping pipelines** using **Python and BeautifulSoup (BS4)** to extract and process drilling data from multiple mining news platforms.
- Built an **interactive data visualization application** using **Dash and Plotly**, enabling users to explore drilling codes and mining data through a web interface.
- Performed **reverse engineering of web page structures and DOM elements** to reliably extract structured information from dynamic web sources.

Technologies

Backend: Node.js, NestJS, Express, Python (Django), Java (Spring Boot), REST APIs

Frontend: React, Angular, HTML, CSS, JavaScript, TypeScript

Databases: PostgreSQL, MariaDB, MySQL

Cloud & Integrations: AWS SES, AWS S3, AWS EC2, OpenPay

Data & AI: Python, Pandas, SpaCy, Keras

Tools: Git, GitHub, Git Flow, Agile, Postman

Testing: Unit Testing, End-to-End Testing (E2E), Jest, Supertest

Automation: n8n, AI Agents API Integrations