RANDY DAVID ROJO QUINTERO

Senior Software Engineer

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Summary

Senior Full-Stack Software Engineer with 7+ years of experience designing and orchestrating the architectural transformation of monolithic systems into Microservices and Serverless (AWS) environments. Proficient in **JavaScript/TypeScript, NodeJS/NestJS, VueJS/React**. Solid expertise in relational database design (**PostgreSQL/SQL Server**), **DevOps**, **Docker**, and **CI/CD** automation. Focused on applying **SOLID principles** and delivering scalable solutions.

Experience

Maderas y Tarimas Cesar Rojo
Durango, Mexico

Senior Software Engineer — 02/2025 - 09/2025

Stack: JavaScript, TypeScript, NestJS, NodeJS, VueJS, PostgreSQL, Docker, GitHub, GitHub Actions, Railway, S3, CloudFront, IAM

- Led the **end-to-end** development lifecycle of the company's first application suite, from requirements gathering to **Figma** interface design and production deployment.
- Designed and implemented a **microservices** architecture with **NestJS** and **NATS** as a messaging **broker**, centralizing login and supporting Inventory, Payroll, and Purchasing systems.
- Developed two native mobile applications using **React Native** and **Expo Router** for capturing raw material transactions and production orders, improving on-site efficiency.
- Established a **CI/CD** solution leveraging **Railway** for automated deployment using **Docker**, and **GitHub Actions** for static web sites automated deployment to S3 buckets, and CloudFront.
- Structured the **PostgreSQL** database using a multi-schema model to ensure data isolation and scalability.

XID - Digital Services, S.A. de C.V.
Mexico City, Mexico

Senior Software Engineer — 06/2023 - 01/2025

Stack: JavaScript, TypeScript, NestJS, NodeJS, TypeORM, VueJS, PostgreSQL, MySQL, Docker, GCP Buckets, GCP Cloud Run

- Led the complete migration of a **PHP** monolith to a microservice architecture (**NestJS**) and Micro Frontends (Vue 3), resulting in a **scalable B2B** travel agency portal.
- Redesigned the database architecture using **PostgreSQL** and developed backend services with **NestJS** and **TypeScript**, optimizing performance and code organization.
- Integrated **PayPal** and the previous payment gateway into the reservation flow, ensuring secure and efficient transaction processing for commission generation.
- Managed service deployment to production using **Docker** containers on **GCP Cloud Run**, adopting a **DevOps** methodology that improved launch efficiency.
- Conducted critical **requirements analysis** and business rule extraction from legacy code, and spearheaded knowledge transfer to the client development team.

ION Financiera S.A.P.I. DE C.V. SOFOM, E.R.
Mexico City, Mexico

Mid Software Engineer — 10/2021 - 06/2023

Stack: JavaScript, TypeScript, NodeJS, Serverless, Lambda, API Gateway, Cognito, GrapQL, VueJS, SQL Server

- Developed and deployed **AWS Lambda** functions via **API Gateway** using **TypeScript**, applying **SOLID principles** and **Clean Code** to create robust **APIs** for mortgage credit approval and release.
- Adapted a new Credit Core System, adjusting financial business rules to ensure the correct validation and workflow for the credit generation process.
- Managed the critical data migration process from the legacy system to the new Core System, ensuring the integrity and availability of sensitive financial information.
- Maintained and adapted the Core system's frontend using **Vue 2** and **JavaScript**, optimizing the user interface for client management and payment application.

Guadiana Tecnología S.A.P.I. de C.V.
Durango, Mexico

Jr Software Engineer — 11/2019 - 09/2021

Stack: C#, ASP.NET, Net Framework, JavaScript, TypeScript, NodeJS, ReactJS, GraphQL, SQL Server

- Developed the frontend of a User and Permission Management System, inspired by the IAM (AWS) service, utilizing **React** and **Tailwind** for the user interface.
- Developed a contractor management module that automated the validation of fiscal certificates using an **OCR** information extraction process to corroborate data.
- Refactored a critical Access Control application (**C#/Net Framework**), implementing **reusable** and **scalable** components that resolved limitations in responsiveness and record viewing.

SC Computacion
Durango, Mexico

Jr Software Engineer — 01/2017 - 11/2019

Stack: C#, Net Framework, SQL Server

- Designed and optimized relational database schemas (**SQL Server**), including the creation of complex **stored procedures**, **functions**, and **triggers**, ensuring data integrity and efficiency.
- Led the development of new **electronic invoicing (CFDI)** and Partial Payments interfaces; performed tax requirement analysis and implemented the logic for invoice stamping using **C#**.
- Developed critical functionalities for 2 **B2B** products, including an invoice analysis system that processed **XML** files and generated analytical reports for auditing and expense verification.
- Contributed to the maintenance and development of tailor-made enterprise systems (inventory, warehouse, accounting), demonstrating versatility with **.NET Framework**.

Education

Instituto Tecnologico de Durango
08/2014 - 06/2019

Bachelor's in Computer Systems Engineering

Skills

Spanish (Native) · English (B2 Upper-Intermediate)

Backend JavaScript · TypeScript · NodeJS · NestJS · Microservices · API Rest · Docker · Git · Python

Frontend VueJS · React · React Native · HTML · CSS

Databases SQL Server · PostgreSQL · MySQL

Cloud S3 · CloudFront · Lambda · API Gateway · Amplify · Cognito

Technologies TypeORM · MikroORM · Third-party-libraries

Leadership · Communication · Mentoring · Proactive · Problem-Solving · Collaborative

Courses

React Native Expo: Native Applications for IOS and Android (25.5 hrs)

NestJS + Microservices: Scalable and Modular Applications (21 hrs)

Docker: Practical Guide for Developers (14 hrs)

Vue.js: Zero to Expert (37.5 hrs)

TypeScript: Comprehensive Guide (8.5 hrs)

SOLID Principles & Clean Code (6.5 hrs)

React.js (44.5 hrs)

Node.js: Zero to Expert (28.5 hrs)