


Juan José Tzun Monterroso

Senior Full Stack Engineer | Java | Spring Boot | React | PostgreSQL | Microservices





Personal details

 Juan José Tzun Monterroso

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 Guatemala

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Skills

Java	●●●●●○
Spring Boot	●●●●●○
Spring Batch	●●●●●○
Microservices	●●●●○●
REST APIs	●●●●●○
Hibernate / JPA	●●●●●○
React	●●●●●○
Angular	●●●●●○
TypeScript	●●●●○●
Javascript	●●●●○●
HTML	●●●●○●
CSS	●●●●○●
PostgreSQL	●●●●○●
MySQL	●●●●○●

Profile

Senior Full Stack Engineer with 5+ years of professional experience building, optimizing, and maintaining scalable enterprise applications using Java, Spring Boot, React, Angular, and relational databases. Experienced in designing REST APIs, developing microservices, optimizing high-volume SQL workloads, and delivering end-to-end features in distributed teams. Proven track record troubleshooting production systems, resolving critical issues under pressure, and collaborating across technical and business teams. Currently expanding expertise in cloud technologies, Docker, and CI/CD practices while continuously adopting modern engineering approaches and emerging technologies.

Education

Bachelor in Mechatronics Engineering Jan 2013 - Nov 2019
Universidad del Valle de Guatemala, Guatemala

Bachelor of Science: Computer and Information Sciences Jan 2011 - Oct 2012
Instituto Tecnológico del Suroccidente, Mazatenango

Employment

Senior Software Engineer Feb 2025 - Present
Allied Global Technology Services, Guatemala

- Core developer of an **electoral system for Civix**, supporting high-volume, mission-critical data flows.
- Designed and implemented **Spring Boot 3.2** microservices using **Spring Cloud** and **Spring Batch**.
- Optimized **PostgreSQL queries over millions of records**, reducing response times by **up to 80%** through indexing and query refactoring.
- Developed and maintained **Angular 16** frontend, implementing role-based access control and reactive forms.
- Acted as **go-to engineer for urgent bug resolution**, consistently delivering fast and reliable fixes.
- Monitored production systems using **Datadog**, identifying and resolving performance bottlenecks.
- Managed database migrations with **Flyway** and version control with **Git**.

Impact: Frequently requested by team leads for complex debugging and time-sensitive issues due to speed, accuracy, and system understanding.

Application Developer Jun 2022 - Feb 2025
Asseco Solutions, S.A., Guatemala

- Developed customized **ERP** solutions based on **APplus**, adapting business logic to client-specific needs.
- Implemented and maintained **Java (Appserver)** and Webserver components using **HTML**, **TypeScript**, **ASPX**, **JavaScript**, and **CSS**.
- Designed and optimized **SQL Server** functions, views, and reports, supporting complex business rules.
- Built and maintained **iReport templates** for operational and financial reporting.
- Collaborated closely with consultants and team leaders in **cross-functional environments**.

Git	● ● ● ● ●
Docker	● ● ● ● ●
CI/CD	● ● ● ● ●
Argo	● ● ● ● ●
Datadog	● ● ● ● ●
Troubleshooting	● ● ● ● ●
Code Review	● ● ● ● ●
Distributed Systems	● ● ● ● ●
LLM (Ollama), MCP, RAG	● ● ● ● ●
Spring AI	● ● ● ● ●
AI Agents	● ● ● ● ●

Languages

English	● ● ● ● ●
Spanish	● ● ● ● ●

Web Developer

Oct 2021 - May 2022

Webtrack, S.A., Guatemala

- Developed front-end features in **React** using **Redux**, **React Router**, and **React Hook Forms**.
- Implemented role-based access control and interactive dashboards with **ApexCharts** and **Syncfusion**.
- Supported **SQL Server stored procedures** and reporting with **Microsoft Report Builder**.
- Integrated and managed GPS tracking modules (Concox, Queclink, Jointech).

System Analyst Programmer

Jul 2020 - Aug 2021

CPS Logistics, S.A., Guatemala

- Backend development in **Java** with **Spring Boot 2** for the Coeus system.
- Frontend development using **Angular 10** for maritime logistics modules.
- Designed reports with **Jaspersoft iReport** and optimized **SQL Server** queries.

Projects

Computer Vision & Machine Learning System

- Developed supervised image classification with labeled datasets using HOG feature extraction.
- Built image processing workflows in MATLAB.
- Applied machine learning concepts for pattern recognition.

Extracurricular activities

Web Developer (Freelance)

Nov 2020 - May 2022

Corporación Díaz, Guatemala

- Designed and developed Proteus, a full business management system (inventory, billing, credits, reporting, permissions).
- Built with **Spring Boot 2**, **Angular 10**, and **MySQL**.
- Deployed and maintained the system on **DigitalOcean**, handling production issues independently.