

Cesar Alfredo Canales Ortega

Senior Full Stack Software Engineer

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PROFESSIONAL SUMMARY

Senior Full Stack Software Engineer with 8+ years of experience building high-traffic platforms and scalable applications for companies such as IBM, 3Pillar Global, and Softtek. Expertise in React, TypeScript, Node.js, Java, and Spring Boot. Proven experience leading migrations of 30+ legacy components, optimizing system performance, and implementing best practices such as TDD, CI/CD, and code reviews. Direct impact on over 1 million users in e-commerce and streaming systems. Strong experience working in remote teams and Agile environments, focused on delivering high-impact solutions.

PROFESSIONAL EXPERIENCE

3Pillar Global – Senior Full Stack Software Engineer

Jun 2023 – Present | Remote

- Developed and maintained a mission-critical data center management system used by 1,000+ clients using React, TypeScript, Redux, styled-components, Material UI, and Vite.
- Built reusable UI components leveraging React Hooks (useState, useEffect, useCallback, useMemo) and deep knowledge of the component lifecycle to optimize rendering and side-effect management.
- Architected global state management using Redux and Context API for complex real-time monitoring dashboards.
- Designed and implemented a reusable component library and internal design system using Material UI.
- Integrated frontend with Spring Boot REST APIs, optimizing data consumption through lazy loading and memoization.
- Implemented unit and integration testing using Jest and React Testing Library, reducing regression rates.
- Led backend architecture using Java 11, Spring Boot 2.5, Spring Security, Azure AD OAuth2, and microservices.
- Managed database migrations with Flyway and MySQL; improved performance using EhCache and Quartz Scheduler.
- Implemented observability using Prometheus and Micrometer for real-time metrics monitoring.

IBM – Senior Full Stack Software Engineer

May 2022 – Jun 2023 | Remote

- Developed and optimized features for Home Depot USA platform, impacting over 1,000,000 users using React, Redux, and GraphQL.
- Migrated 30+ critical components from AngularJS to React + Redux, modernizing the codebase and improving maintainability.
- Improved product search efficiency by 20% through GraphQL query optimization and reduction of unnecessary API calls.
- Introduced GitHub Flow, Conventional Commits, and pull request workflows; led code reviews to enforce quality standards and traceability.
- Maintained high test coverage using Jest and Testing Library, ensuring stability in frequent deployments.

Softtek – Full Stack Software Engineer

Dec 2018 – May 2022 | Monterrey, Mexico

- Architected and developed a streaming system from scratch using React (Redux), Node.js (Express), and MongoDB.
- Refactored legacy PHP logic into RESTful APIs using Node.js, reducing technical debt and improving modularity.
- Designed and implemented full backend architecture including models, controllers, and REST endpoints.
- Managed MongoDB databases, including security, indexing, and data migration.
- Configured and maintained Linux servers across development and production environments.

Global Hitss – Full Stack Software Engineer

Jan 2018 – Dec 2018 | Queretaro, Mexico

- Developed telecommunications systems for service provisioning using Java (Spring), REST APIs, SOAP Web Services, and Oracle 11G (PL/SQL).
- Performed Oracle 11G database migrations ensuring integrity and availability.
- Created automation scripts using Shell Scripting to optimize deployment processes.
- Built internal interfaces using AngularJS and HTML5 for critical systems.

EDUCATION

Universidad Politécnica de Querétaro – Bachelor's Degree in Computer Systems Engineering, Queretaro, Mexico

TECHNICAL SKILLS

Frontend: React, TypeScript, ES6+, Redux, AngularJS, Vue, Material UI, Styled Components, HTML5, CSS3, Responsive Design, Sass

Backend: Node.js, Express, Java, Spring Boot, GraphQL, REST, SOAP

Databases: MongoDB, PostgreSQL, Oracle 11G, MySQL

DevOps / Tools: Docker, Linux, GitHub Actions, TeamCity, Jira, CI/CD

Testing: Jest, React Testing Library, TDD

Methodologies: Agile, Scrum

LANGUAGES

Spanish: Native

English: Professional Working Proficiency