

Victor Rosario - Senior Software Engineer

Senior Software Engineer

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Summary

Seasoned Software Engineer with 6+ years of professional experience building scalable, production-grade web applications using **JavaScript/TypeScript, React, Node.js, and PostgreSQL**. Proven track record of owning features end-to-end—from planning and architecture through deployment and maintenance—in fast-paced, collaborative environments. Strong focus on clean architecture, system reliability, performance optimization, and test-driven development. Comfortable making pragmatic technical decisions, mentoring teammates, and delivering high-impact solutions.

Core Skills

- ◆ **Languages:** JavaScript (ES6+), TypeScript, SQL, Python, PHP
- ◆ **Frontend:** React, Next.js, Zustand, Redux, React Query, React Hook Form
- ◆ **Backend:** Node.js, Nest.js, Laravel, FastAPI, Express.js, REST APIs, GraphQL
- ◆ **Databases:** PostgreSQL, MySQL, DuckDB, MongoDB, Redis
- ◆ **Testing:** Jest, Mocha (unit & integration testing)
- ◆ **Architecture & Practices:** Clean Code, Modular Architecture, Agile/Scrum, Code Reviews
- ◆ **Infrastructure:** Docker, Git, CI-friendly workflows
- ◆ **Real-Time & Messaging:** WebSockets, Redis-based communication patterns
- ◆ **Documentation:** Swagger / OpenAPI

Professional Experience

Frontend Developer

National Competitiveness Council | Sep 2023 – Present

- ◆ Own the development of large-scale, citizen-facing web platforms from technical planning through production deployment.
- ◆ Design and evolve frontend architecture using React and modern state management solutions (Zustand, Redux), ensuring scalability and maintainability.
- ◆ Collaborate closely with product, design, and QA teams to define requirements, estimate effort, and deliver features iteratively under Agile workflows.
- ◆ Lead architectural discussions and break down complex requirements into modular, testable components.
- ◆ Optimize application performance, improve load times, and proactively resolve production issues.
- ◆ Participate in code reviews, enforce clean code standards, and promote best practices across the team.
- ◆ Integrated AI-powered features using LLM APIs (OpenAI, Claude), enabling automation of user workflows and reducing manual user interactions by ~40%.
- ◆ Developed AI-driven capabilities such as content generation and summarization, improving data processing speed by ~50%.
- ◆ Designed and refined prompt engineering strategies, increasing response accuracy and consistency across AI features.
- ◆ **Implemented streaming and response handling for AI interactions, improving perceived performance and user engagement.**
- ◆ Contributed to high-traffic platforms such as **gob.do** and internal systems like **Meetings**, supporting **thousands of concurrent users**.

Full-Stack Developer

Media Revolution, SRL | Sep 2021 – Sep 2023

- ◆ Developed and maintained end-to-end web applications using React, Node.js, and PostgreSQL.
- ◆ Designed database schemas, managed migrations, and ensured data integrity using SQL and ORMs.
- ◆ Implemented unit and integration tests with Jest and Mocha to improve system reliability and reduce regressions.
- ◆ Collaborated with stakeholders to translate business requirements into scalable technical solutions.
- ◆ Took ownership of features from initial design through deployment and post-release support.
- ◆ Improved system availability and performance through preventive maintenance and targeted refactoring.
- ◆ Led content migration from WordPress to Contentful, building automation scripts to streamline content transformation and migration processes, and delivering content through custom web platforms developed with Next.js and Astro.

- ◆ Integrated AI services (OpenAI, Claude) to automate content generation and transformation workflows.
- ◆ Built internal tools leveraging AI for structured data extraction, content enrichment, and automation pipelines.
- ◆ Implemented backend orchestration for AI requests, including prompt handling, response parsing, retries, and error handling.
- ◆ Optimized AI usage for performance and cost efficiency, reducing manual workload through intelligent automation.

Software Developer

Yo Navego Seguro | Nov 2020 – Mar 2021

- ◆ Modernized legacy codebases to align with current JavaScript and Node.js best practices.
- ◆ Worked closely with project managers to define realistic milestones and deliver incremental value.
- ◆ Improved overall maintainability and performance of pre-release software projects.

Website Developer

Marena Beach Residences | Jul 2020 – Nov 2020

- ◆ Built responsive, SEO-optimized websites by translating designs into functional web pages using HTML, JavaScript, AJAX, and JSON.
- ◆ Integrated backend services with Node.js and SQL databases to support dynamic content.
- ◆ Delivered scalable and maintainable solutions aligned with business and marketing goals.

Education

Technological Institute of the Americas (ITLA)

Software Technologist – Computer and Information Sciences (2022)

Certifications & Continuous Learning

- ◆ Master Class TypeScript – Microsoft
- ◆ Back End Development and APIs – freeCodeCamp
- ◆ JavaScript Algorithms and Data Structures – freeCodeCamp
- ◆ Introduction to Redis Data Structures – Redis University
- ◆ Master Class Node.js with Express.js

Languages

- ◆ Spanish: Native
- ◆ English: Intermediate

Additional Highlights

- ◆ Comfortable working in early-stage and fast-growing environments with high autonomy.
- ◆ Strong sense of ownership, accountability, and delivery.
- ◆ Experience mentoring peers through code reviews and technical discussions.
- ◆ Focused on building reliable, maintainable systems that scale with business needs.