RAFAEL SILVA-VERGARA

Senior Software Developer

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in rafael-silva-vergara

SKILLS

JavaScript TypeScript Py	thon PHP HTML CSS	PostgreSQL MongoDB	MySQL	GraphQL
Apollo REST ExpressJS	Django NodeJs NextJS	React Laravel Redis	Kafka	Kubernetes
Docker Terraform Azure	AWS Jest Cypress C	Git New Relic Graphana	CI/CD	Linux

EXPERIENCE

Senior Software Developer

North Nerds

Feb 2020 - Present

♀ London Ontario, Canada

- Led a team of three developers to design and develop a minimum viable product for a peer-to-peer marketplace using PHP, Laravel, and MySQL, securing over \$75K in angel investment funding.
- Designed and built a fault-tolerant, event-driven affiliate system, processing 2K+ real-time events daily, leveraging dynamic incentive tracking to increase user sign-ups and retention by 20%.
- Implemented a React Design System with a comprehensive component library, significantly reducing duplicated boilerplate code by over 200% and ensured our applications remained DRY
- Architected a fault tolerant, horizontally scalable SMS & email notification system, processing over 10K+ daily messages with retry mechanisms that minimized delivery failures and drove 3x increase in user retention and engagement.
- Engineered a scalable media upload service, migrating from local storage to Amazon S3 to enhance reliability, reduce server load, and enable seamless handling of large files across multiple environments.
- Optimized data pipelines utilizing MongoDB's aggregation pipelines, reducing query execution time by 80% and improving data retrieval performance for high-throughput microservices in a distributed system.

Software Developer - Platform

Intelex Technologies

🗎 Apr 2022 - Oct 2024

- ♀ Vancouver British Columbia, Canada
- Pioneered the transformation of a monolithic front-end into a micro-front-end platform using Piral, enabling modular development, reducing feature delivery time by 20%, and improved developer workflows.
- Developed scalable platform-level dashboards for task, role, and group management using React and TypeScript, optimizing performance to efficiently handle 100K+ records with infinite scrolling and server-side pagination.
- Directed the adoption of Apollo Federation, reducing redundant GraphQL API calls by 50% and cutting server costs in half.
- Led a cross-functional team in building an LLM-driven compliance document processor, automating regulatory analysis and summarization with generative AI. This innovation won the 2023 Intelex Hackathon.

Full-Stack Software Developer

CashFlow Tribe

Mar 2021 - Jan 2022

- ♥ Windsor Ontario, Canada
- Executed a gamification strategy, leveraging achievement badges, leaderboards, and progress tracking. This initiative tripled daily active users and doubled course completion rates, significantly enhancing user engagement and retention.
- Orchestrated the development of an e-Commerce store, resulting in a 5% increase in company profits through merchandise sales.
- Enhanced company infrastructure by designing and deploying an internal intranet system with Python & Django, significantly improving company-wide communication and collaboration.

EDUCATION & CERTIFICATIONS

South Collegiate Institute

Regina Mundi Catholic College

Sept 2012 - June 2014

₩ Nov 2024

Azure Fundamentals

Microsoft

₩ Nov 2024

Back-End Professional Certification

Meta