RAFAEL SILVA-VERGARA

Full-Stack Software Developer

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EXPERIENCE

Software Developer
Intelex Technologies

📅 Apr 2022 – Oct 2024   📍 Vancouver, British Columbia, Canada

- Developed scalable platform-level dashboards for task, role, and **group management** using **React** and TypeScript. These dashboards efficiently handled thousands of records with **infinite scrolling** and **server-side pagination**.
- Played a key role in introducing **Apollo federated queries**, minimizing client-to-server **GraphQL** API calls by 50%+, reducing redundant data fetching and simplifying data access across micro-services.

Founder & Software Developer
North Nerds

📅 Feb 2020 – Present   📍 London, Ontario, Canada

Instagrooms
- Developed an event-driven **SMS and email notification system** to enable scalable and reusable alerts, resulting in improved user engagement and streamlined communication processes.
- Created a **rate limiter middleware** for API end-points to mitigate spam and minimize the risk of DDoS attacks, resulting in improved system stability and controlled access to resources.
- Designed and implemented a reusable **media uploader** to support large-scale single or multiple file uploads, including videos and photos, ensuring efficient and scalable content management.

Website & IT Lead
CashFlow Tribe

📅 Mar 2021 – Jan 2022   📍 Winsdor, Ontario, Canada

- Expanded sales opportunities by developing an **E-Commerce store** to sell company merchandise, increasing planned revenue by a target of over 15%.
- Built an intuitive **infinite scrolling news feed** to display posts from other users, significantly boosting platform engagement and user interaction.

SKILLS

JavaScript/TypeScript · Python · PHP · HTML · CSS · SQL · MongoDB · SQL · GraphQL · Apollo · REST · Git · Django · NodeJs · React · Laravel · Vue · Kubernetes · Docker

CERTIFICATIONS

- Back-End Developer Professional Certification - *Meta*
- Azure Fundamentals - *Microsoft*
- Leadership in Tech - *LinkedIn*
- Effective Technical Communication - *LinkedIn*

PROJECTS

WaiterAI (AI Powered Waiter)

Vue · Python · MongoDB

- Speech to text and text to speech communication with Claude-Sonnet.
- Live transcription, tracking conversation between the user and the AI waiter.

Sound Sight (Audio Visualizer)

React · ThreeJs · CSS · HTML

- Visualize audio from user microphone input or an uploaded audio file.
- User controlled interface to change variables in the visualization.

ACHIEVEMENTS

- Instagrooms application secured **$75,000** in investor funding.
- Tech Articles amassed over **3500 readers** for the Plain English Publication on Medium after first month.
- 2023 Champion of the Annual Intelex Hackathon.

HOBBIES

Technical Writer
Medium

📅 Sept 2024 – Present

- Creating technical articles focused on software engineering, including tutorials, tech news, and discussions on best practices.

EDUCATION

South Colligiate Institute

📅 July 2017 – May 2020

Regina Mundi Catholic College

📅 Sept 2012 – June 2014