

# Rafael Silva-Vergara

## Full-Stack Software Developer

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## Experience

### Software Developer

#### Intelix 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   Windsor, 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 frequencies from an audio file uploaded by a user.
- User-controlled interface to change variables in the visualization.

## Achievements

- The 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 Intelix 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 Colligate Institute

July 2017 – May 2020

### Regina Mundi Catholic College

Sept 2012 – June 2014