Vancouver, Canada Website | LinkedIn

Krishnakumar Valliappan Junior Software Engineer

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Tech enthusiast and avid learner, I recently discovered my passion for web development while creating my portfolio. What started as a showcase project ignited a spark, captivating me with the creative process of bringing ideas to life through code. I've quickly developed proficiency in various web technologies including [top skills]. Now, I'm eager to transition into a web development career, leveraging my analytical background to craft engaging, user-friendly experiences. When not immersed in coding, you'll find me conquering hiking trails, solving puzzles, or perfecting my homemade pizza recipe – which I'm already planning to feature on my next web project!

Technologies and Languages

• Languages: JavaScript, TypeScript, Python, SQL

Web Development:
 React, NextJs, Vue.js, Express.js, Django, HTML, CSS, TailwindCSS

Databases: MySQL, MongoDB

Tools:
 GIT, Docker, Jira, Azure, AWS, Snowflake, MS Office suite, LaTeX
 Framework and libraries:
 Spacy, Tensorflow, OpenCV, Selenium, beautifulsoup4, PySpark

Projects

Developed an Interactive Digital Portfolio:

- Developed a full-stack personal portfolio using Next.js and TypeScript, showcasing proficiency in front-end technology.
- o Implemented a dynamic project showcase with interactive elements and live demos to enhance user engagement.
- Ensured cross-browser compatibility, accessibility compliance, and robust security measures through systematic testing and regular updates.
- o Utilized Git and GitHub for efficient version control and collaborative development workflows.

Technologies & Skills learned: Next.js, TypeScript, Tailwind-CSS, Framer-motion, shadon-ui.

Developed the Notion TickTick Two-Way Sync Integration:

- Developed a Python-based synchronization app between Notion and TickTick using API integrations.
- o Unified task management across platforms, enhancing personal productivity and efficiency.
- o Implemented automation strategies to streamline workflow and reduce manual task handling.
- o Created a user-friendly solution that addresses cross-platform inefficiencies in task management. Technologies & Skills learned: Python, API integration, and automation strategies.

Work Experience

Associate Data Analyst

IA Flow Elements

April 2020 - July 2022

- Engineered a **predictive model** that utilized machine learning algorithms to forecast sales trends, enhancing decision-making accuracy and contributing to a 15% uplift in sales projections accuracy.
- Boosted data processing efficiency by 40% via custom Python scripts for **ETL automation**, ensuring precise data handling from extraction to in-depth analysis, integrating with AWS cloud.
- Led the team to optimize data processing workflows by 30% by migrating to **AWS**, enhancing both data handling efficiency and **system scalability** while also ensuring data accuracy.

- Developed a **Python-based** application with a Tkinter GUI for the marketing team to add and track quotes, integrating with **Power BI** to visually monitor progress and improve quote management efficieny.
- Established efficiency metrics and automated Excel dashboards using **VBA scripting**, which boosted the productivity and efficiency of designers and CAD technicians by over 25%.
- Enhanced business process efficiency and decision support by collaborating with teams to optimize data workflows and designing tailored Power BI dashboards and KPI reports, resulting in improved strategic planning across the organization.

CAD Designer IA Flow Elements June 2019 - March 2020

- Designed flow elements according to provided specifications using RW Miller software, improving product performance in the oil & gas sector.
- Managed technical quotations, effectively converting quotes to orders, demonstrating strong business communication skills.
- Handled client-centric reporting and documentation, ensuring tailored solutions and high customer satisfaction.

Education

• Master of Engineering, Concordia University.

2022 - 2024

Bachelor of Engineering, Anna University.

2015 - 2019

Awards

- Awarded Membership in Golden Key International Honor Society: Recognized for academic excellence by being invited to join this prestigious society, which represents the top 15% of college and university students globally based on scholarly achievements.
- Received the Rising Star Award in 2020: Honored for exceptional performance and potential in data analytics within the first year of employment.

Extracurricular

- Teaching Assistant, Transform Calculus and PDE, Concordia University (Sep 2023 Dec 2023): Developed
 Python simulations to demonstrate concepts like Fourier Series, Laplace Transforms, and PDEs,
 significantly enhancing student understanding. Led collaborative learning sessions and received excellent
 feedback, achieving a 20% increase in student satisfaction ratings.
- **Event Organizer, EXPRO Organization:** Successfully coordinated a major technical event during my undergraduate studies, fostering team collaboration and leadership skills in a practical setting.
- Volunteer, Reading Assistance for Visually Impaired: Provided support to individuals with visual reading disabilities, enhancing accessibility and contributing to community welfare during my undergraduate studies.