|  |  |  |
| --- | --- | --- |
| Montreal, Canada [Website](https://krishnavalliappan.github.io/portfolio-website/) | [LinkedIn](https://www.linkedin.com/in/krishnavalliappan) | Krishnakumar Valliappan FirmwareEngineer | +1 (514) 980 6433  [Krishnavalliappan02@gmail.com](mailto:Krishnavalliappan02@gmail.com) |

## 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.
  + 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.
  + Utilized Git and GitHub for efficient version control and collaborative development workflows.

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

* **Developed the Notion TickTick Two-Way Sync Integration**:
  + Developed a Python-based synchronization app between Notion and TickTick using API integrations.
  + Unified task management across platforms, enhancing personal productivity and efficiency.
  + Implemented automation strategies to streamline workflow and reduce manual task handling.
  + 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 effiecieny.
* 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.