

Hemraj Kafle

Brampton, ON, Canada

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Summary:

Innovative and detail-oriented Quantitative Analyst with over 2 years of experience in leveraging big data assets to build automated solutions and data analytics models. Proven track record in providing analytical support to sales and trading desks across Commodities, FX, Rates, and Equities. Skilled in developing and maintaining automated data pipelines, risk management infrastructure, and investment strategies. Strong proficiency in C#, .NET, Python, SQL, and other tech stacks, with a robust background in quantitative disciplines. Adept at designing, implementing, and maintaining robust solutions that optimize business processes.

Professional Experience

Solution Developer

Windmill Services, Milton, ON

January 2021 – Present

- Developed and maintained automated data pipelines, infrastructure, and index calculation models to support trading desks and quantitative strategies, enhancing operational efficiency.
- Designed and configured intelligent capture processes, form recognition, and data extraction within Kofax Total Agility (KTA), leading to improved data processing accuracy.
- Collaborated with business analysts and stakeholders to identify and implement requirements for data quality, integrity, and timeliness, ensuring alignment with business goals.
- Integrated Kofax Total Agility with external systems, databases, and APIs using SQL and MySQL, improving data flow and system interoperability.
- Utilized tools like Jira and Confluence for project management, documentation, and collaboration, fostering a productive and organized work environment.

Application Developer

Infostructure Technology, Brampton, ON

January 2020 - December 2020

- Led the development of CRAFT, a childcare management application, utilizing .NET MVC framework with the use of C#, HTML, JavaScript, jQuery, Razor technologies, SQL, and others.
- Contributed to the design and implementation of features, ensuring an intuitive and user-friendly interface for childcare management.
- Collaborated with stakeholders to gather requirements, conducted regular feedback sessions, and implemented improvements to meet evolving needs.
- Worked with cross-functional teams to integrate the application with databases and external systems for seamless data flow.

Developer Co-op in Market Risk Technology

BMO Financial Group, Toronto, ON

September 2019 – December 2019

- Worked as a team member of the Market Risk Analytics team and the team developing a grid compute framework supporting various risk applications.
- Assisted in the development and maintenance of risk management tools and applications.
- Collaborated with cross-functional teams to ensure the accuracy and reliability of risk data and analytics.
- Utilized programming languages and tools such as Python, C++, and SQL to support risk management activities.

Education

B.Sc. Computer Science

Toronto Metropolitan University, Toronto, ON

2021-2024

Advanced Diploma in Computer Systems Technology - Systems Analyst

Sheridan College, Brampton, ON

2018-2020

Master of Arts (Economics)

Tribhuvan University, Kathmandu, Nepal

2014-2016

B.Sc. (Physics and Mathematics)

Tribhuvan University, Kathmandu, Nepal

2010-2013

Technical Skills

- ✓ **Programming Languages:** Python, C++, C#, VB6, Java, JavaScript, jQuery
- ✓ **Databases:** SQL, MySQL, SQL Server, SQL Server Management Studio
- ✓ **Quantitative Tools:** q/KDB
- ✓ **Data Analysis & Integration:** API Integration, Web Services, Data Processing and Manipulation
- ✓ **Version Control:** GIT, GitHub, BitBucket, DevOps
- ✓ **Project Management & Collaboration:** Jira, Confluence, SharePoint, Visual Studio, VS Code, Eclipse

Certifications

- Kofax TotalAgility, and Analytics Certification
- Certificate in Data Analytics, Big Data, and Predictive Analytics
- Certified Entry-Level Python Programmer

References

Available upon request.