

Md Rezwan Hassan Khan

Ottawa, ON, K2C0N7

md.rezwanhassankhan@gmail.com | <https://www.linkedin.com/in/mdrezwankhan/> |
<https://github.com/RezwanHassanKhan>

HIGHLIGHT:

- Nationality/Work Authorization : Canadian Permanent Resident
- MSc in Computer Science with 1 year of experience as a Data Science and Automation Engineer Intern at Micro Focus.
- ML Researcher at Ericsson: Created ETL pipelines for fault detection in microservices.
- Expertise in data structures, algorithms, programming, testing, scripting, and software engineering.
- Experienced in cross-functional teams, managing software development, and Agile methodologies.

EXPERIENCE

Technical Sales Specialist

March 2024 - Present

Best Buy Canada Ltd, Ottawa, ON

- Provide expert technical support and product demonstrations for consumer electronics.
- Exceed sales targets through effective upselling and addressing customer concerns.

Personal Sabbatical

March 2023 – February 2024

- Returned to my country to manage household responsibilities and care for a sick family member.
- Improved problem-solving abilities on data structure and algorithms on AlgoExpert.

Automation Engineer Intern

May 2022 - Dec 2022

Microfocus, Kanata, ON

- Successfully evaluated and integrated machine learning models in Python, significantly improving accuracy and performance.
- Conducted comprehensive unit testing using “unittest” and “pytest”, ensuring high code quality and reliability.
- Effectively troubleshooted and resolved critical issues, and developed robust sample data, test plans, and cases.
- Achieved seamless integration of unit tests into CI/CD pipelines with Bitbucket, enhancing automated testing and deployment processes.
- Documented and reported defects accurately, fostering collaboration with development teams to ensure timely fixes.
- Implemented automated browser testing with Selenium, improving testing efficiency and coverage.

Data Scientist Intern

Jan 2022 - Apr 2022

Microfocus, Kanata, ON

- Designed and implemented statistical models to detect threat signals in diverse data streams, successfully solving business problems.
- Queried and analyzed data from OERMC tables using SQL, leading to significant insights through pattern extraction and schema aggregation.

- Developed a script to transform data and label anomalies, which was pivotal in a model demo for detecting system faults, impressing the client.
- Created and deployed statistical anomaly models in MLflow, effectively identifying and resolving anomalous child-parent pairs and extension process pairs in client systems

Mitacs Accelerate Machine Learning Operations Engineer Intern

May 2021 – Dec 2021

Ericsson, Kanata, ON

- Developed and deployed machine learning models(LSTM, SARIMAX) for data forecasting and anomaly detection, enhancing system security and efficiency.
- Developed ETL pipeline - collects, pre-process data from a micro-service application deployed in Kubernetes using Prometheus and feature engineered to prepare data for modelling.
- Implemented real-time monitoring systems to detect and alert on anomalies in critical applications and systems using Grafana.

Adjunct Lecturer

Sep 2019 - Apr 2020

BRAC University, Dhaka

- Taught Object-Oriented Programming and database management systems and took AI labs.
- Helped in organizing exams, assignments, and administrative work.
- Gave consultation and held practice sessions to improve student's coding capabilities.

CORE SKILLS

- **Data Science and BI:** Scala, SQL, MySQL, Hadoop, pySpark, NumPy, Pandas, Scikit-Learn, Matplotlib, PyTorch.
- **Data Mining:** Time series analysis, missing value imputation, data visualization, feature scaling, normalization, query optimization.
- **ML Models:** Classification, predictive, regression, deep learning, neural networks, Random Forest, K-means, SVM, reinforcement learning, ETL automation, GLMs, NLP.
- **Cloud Computing:** Kubernetes, Docker, AWS (EKS, S3), Prometheus, containerization, orchestration, MLflow, Azure; Languages: Python, Java, SQL, Bash, Git.
- **Developer Tools:** PyCharm, Jupyter, Anaconda, IntelliJ, Jira, Confluence, Bitbucket, GitHub.
- **Operating Systems:** Linux, Windows, iOS, Android.
- **Soft Skills:** Excellent communication, strong work ethic, quick learner, team player, independent, cross-functional, remote or on-site.

EDUCATION

Master of Computer Science | Data Science

Sep 2020 - Feb 2023

Carleton University, Carleton

Bachelor of Science | Computer Science and Engineering

Jan 2015 - Dec 2018

BRAC University