

Syed Rafae Hashmi

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EDUCATION

Wilfrid Laurier University

Waterloo, ON

Honours Bachelor of Science, Computer Science Co-op – Big Data Systems and Data Analytics Minor

2022 – 2026

TECHNICAL SKILLS

Languages/Frameworks/Libraries: C, C++, CSS, HTML, Java, JavaScript, matplotlib, NumPy, Pandas, Python, R, React, SQL, seaborn, SciKit Learn, TensorFlow, VBA

Tools/Technologies: AutoCAD, Confluence, Fusion 360, Git, GitHub, Jira, Jupyter, Linux, Power Bi, Microsoft Office, MySQL, Node.js, SOLIDWORKS, Tableau, Windows

Languages: English, French

WORK EXPERIENCE

80eight | Jr. Data Analyst - Intern

May 2023 - Aug 2023

- Implemented automated data extraction processes using **SQL** and **Python**, saving **10+** hours weekly and facilitating efficient data modeling for analytics.
- Improved data management system efficiency, reducing data retrieval times by **5** minutes per query and enhancing data visualization accuracy.
- Cleaned and preprocessed raw data, ensuring **99%** accuracy across **1,000,000+**, which improved the quality of data models and visual reports.

Brickworks Academy | LEGO Robotics Instructor

Jul 2022 - Sep 2022

- Developed and implemented curriculum, increasing student engagement by **25%**, affecting **30+** students.
- Taught coding practices using FRC Mindstorms EV3 Software, enhancing student proficiency, resulting in **5+** competition wins.
- Managed a budget of **\$5000** for materials and equipment, achieving a **95%** utilization rate.

Roots Canada | Sales Associate

Sep 2021 - Jun 2022

- Enhanced product sales by **\$10,000** monthly, assisting **50+** customers daily.
- Leveraged critical thinking and product knowledge, maintaining a **90%** customer satisfaction rate.

PROJECTS

Machine Learning Price Regression Model

Python, Jupyter Notebook, Sci-Kit Learn, Seaborn, Pandas

- Improved algorithm performance by implementing a confusion matrix, increasing accuracy to **95.8%**.
- Enhanced data analytics on a **100000+** observations dataset.
- Delivered a predictive model, visually represented through a regression graph.

AI Sudoku Solver

Python

- Improved algorithm performance using the AC3 algorithm, solving puzzles in **~1** seconds on average.
- Used dictionary-based implementation with **3+** dictionaries and **80+** values, optimizing solution efficiency.
- Validated solver effectiveness through backtesting across various difficulty levels.

Laurier Student Study Hub

JavaScript, HTML, CSS, React, Firebase

- Enhanced security and user interaction by integrating Firebase authentication and cloud storage.
- Implemented encryption, resolving **30+** security bugs, increasing user trust.
- Developed features like image/video support and multi-user chat rooms, boosting user interaction by **400+** messages daily.

VOLUNTEER EXPERIENCE

HawkHacks | Event & Logistics Coordinator

September 2023 - April 2024

- Organize and structured workshop and events for a Hackathon of over **800** participants.
- Procured over **\$20,000** in funding by liaising with sponsors, surpassing the funding goal.
- Managed event budgets, ensuring optimal resource allocation and reducing costs by **\$2,000**.