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.Js, SQL, seaborn, SciKit Learn, TensorFlow, VBA
Tools/Technologies: AutoCAD, Fusion 360, Git, GitHub, Jira, Jupyter, Linux, Power Bi, Microsoft Office, MySQL, Node.Js, SOLIDWORKS, Windows
Languages: English, French

EXPERIENCE

80eight | *Jr. Data Analyst - Intern*   May 2023 - August 2023
- Implemented automated data extraction processes using **SQL** and **Python**.
- Reduced data retrieval times by **30%** through a new data management system.
- Cleaned and preprocessed raw data, reducing errors by **98%** and increasing analysis efficiency by **35%**.

Brickworks Academy | *LEGO Robotics Instructor*   July 2022 - September 2022
- Developed and implemented curriculum resulting in a **25%** increase in student engagement.
- Taught a variety of code practices and skills using the FRC Mindstorms EV3 Software.
- Managed a budget of **$5000** for materials and equipment, achieving a **95%** utilization rate.

Roots Canada | *Sales Associate*   September 2021 - June 2022
- Enhanced product sales and provided personalized assistance to **50+** customers daily.
- Leveraged critical thinking and advanced product knowledge to address inquiries and ensure a flawless experience.

PROJECTS

Machine Learning Price Regression Model
Python, Jupyter Notebook, Sci-Kit Learn, Seaborn, Pandas
- Improved algorithm performance with a comprehensive confusion matrix using various regression models.
- Enhanced data analytics on a **100000+** observations dataset.
- Delivered a **0.958** accuracy for a predictive model, substantiated with a plotted regression graph.

AI Sudoku Solver
Python
- Improved algorithm performance with **AC3** algorithm, reducing the search space and constraint propagation.
- Used a dictionary based implementation with **3+** dictionaries and **80+** values each.
- Utilized backtesting to validate the solver's effectiveness across various difficulty levels of Sudoku puzzles.

Laurier Student Study Hub
JavaScript, HTML, CSS, React, Firebase
- Boosted application security and data protection with Firebase authentication and cloud storage.
- Implemented encryption and resolved over **30+** security bug tickets.
- Completed **25+** feature tickets, including image/video support and multi-user chat rooms.

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 effectively liaising with sponsors.
- Demonstrated adept budgeting skills ensuring optimal resource allocation.