

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.
- Assisted in implementation of a new data management system, resulting in a improved data retrieval times.
- Performed data cleaning and preprocessing on raw data, ensuring data quality and consistency.

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 **\$500** 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

- Developed a machine learning project, predicting future trends of Bulldozer pricing, using regression models.
- Enhanced data analytics on a **100000+** observations dataset using tools like pandas, seaborn, and scikit-learn.
- Improved algorithm performance with a comprehensive confusion matrix using various regression models.
- Delivered a **0.958** accuracy for a predictive model, substantiated with a plotted regression graph.

Laurier Student Study Hub

JavaScript, HTML, CSS, React, Firebase

- Developed a fully functional website and chat application using JavaScript, HTML, CSS, and Firebase authentication, offering a seamless user interface and secure backend.
- Boosted application security and data protection with Firebase authentication and cloud storage, implementing encryption and successfully resolving over **30+** security bug tickets.
- Enhanced chat application functionality with the integration of features such as image/video support and multi-user chat rooms, increasing user interaction and resulting in the completion of **25+** feature tickets.

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.
- Average solving time of **~2 seconds** per puzzle, showcasing efficiency of algorithm.

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.