

Syed Rafae Hashmi

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EDUCATION

Wilfrid Laurier University

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

Waterloo, ON

Sep 2022 - Aug 2026

TECHNICAL SKILLS

Languages: C, C++, CSS, HTML, Java, JavaScript, LaTeX, Python, R, SQL, Visual Basic

Frameworks: Angular, Bootstrap, Next.js, Node.js, React Native, TensorFlow

Libraries: matplotlib, NumPy, PyTorch, Pandas, React.js, seaborn, SciKit Learn, Tidyverse

Cloud/Databases: AWS, Azure, Firebase, MongoDB, MySQL

Technologies: alteryx, AutoCAD, Confluence, Eclipse, Fusion 360, Git, GitHub, Jira, Jupyter, Linux, Microsoft Office, Netlify, Power Bi, RStudio, SOLIDWORKS, Tableau, Visual Studio, Windows

Language Fluency: English, French

WORK EXPERIENCE

80eight | Jr. Data Analyst - Intern

May 2023 - Aug 2023

- Implemented **automated** data extraction processes using **SQL** and **Python**, saving the data analytics and financial resources team **10+ hours** weekly and facilitating efficient data modeling to reduce errors by **30%**
- Improved efficiency through query **optimization** and normalization, reducing data retrieval times by **5 minutes** per query and enhancing data **visualization** accuracy
- Cleaned and pre-processed raw sensitive financial data using **alteryx AI** analysis software, ensuring **99%** accuracy across **1,000,000+** records, which improved the quality of data models and visual reports

Brickworks Academy | LEGO Robotics Instructor

Jul 2022 - Sep 2022

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

PROJECTS

A Knight's Tour — Hamiltonian Path Problem

JavaScript, React, HTML, CSS

- Solved the problem with **3 methods**, ensuring **100%** accuracy over **500+** test cases, and maintained an intuitive interface
- Applied **backtracking** and **heuristic algorithms** to halve solution time, enhancing **efficiency** and performance
- Produced a **neural network** model satisfying **100%** of cases, showcasing advanced **machine learning** capabilities

Bulldozer Price Pro — Linear Price Regression Model

Python, Jupyter Notebook

- Created a **machine learning model** to predict future trends of Bulldozer prices using **regression techniques**
- Improved **algorithm performance** by implementing a confusion matrix, increasing accuracy from **70.4%** to **95.8%**
- Cleaned and sorted a dataset of **400,000+** fields to evaluate future pricing using tools like numpy, pandas, seaborn, and scikit-learn, applying data **visualization** and **modeling** with regression graphs

SudokuSolve AI — Constraint Satisfaction Problem

Python

- Applied the **AC3 algorithm**, improving puzzle-solving speed to **~1 seconds** on average, compared to **2+** hours manually
- Leveraged **over 3** dictionaries with more than **80 values** to improve solution efficiency, ensuring optimal performance
- Validated** solver effectiveness through rigorous and comprehensive **backtesting** across a wide range of difficulty levels

LEADERSHIP EXPERIENCE

HawkHacks | Event & Logistics Coordinator

Sep 2023 - Apr 2024

- Managed **\$200,000** in prizes by implementing strategic planning, lead generation, and cold outreach strategies, resulting in **35** partnerships for one of Canada's largest Hackathons with over **900** participants
- Managed event budgets, ensuring optimal resource allocation and reducing costs by **\$20,000+**
- Implemented effective relationship management strategies, fostering key partnerships with industry leaders in Crypto/Web3 such as Near Toronto, Avalanche, and Metis, along with the University of Waterloo Blockchain Club