

# 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 Sep 2022 - Aug 2026

## TECHNICAL SKILLS

**Languages:** C/C++, CSS, HTML, Java, JavaScript, LaTeX, PHP, 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, Confluence, Eclipse, Git, Jira, Jupyter Notebook, Linux, MS Office, Netlify, Power Bi, RStudio, Tableau, Vercel, Visual Studio, VSCode

## WORK EXPERIENCE

### Jr. Data Analyst - Intern | 80eight - Toronto, ON

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 **90%** accuracy across **1,000,000+** records, which improved the quality of data models and visual reports

### Robotics Instructor | BrickWorks Academy - Toronto, ON

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— Machine Learning Price Regression Model

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

- 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