

# 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

Aug 2026

## TECHNICAL SKILLS

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

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

### Roots Canada | Sales Associate

Sep 2021 - Jun 2022

- Increased sales revenue by **\$10,000+** monthly, while actively 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 from **70.4%** to **95.8%**.
- Cleaned and sorted values from a dataset of **100000+** fields to evaluate future pricing using regression graphs.

### AI Sudoku Solver

Python

- Improved algorithm performance using the AC3 algorithm, now capable of solving puzzles in **~1** seconds on average compared to **2+** hours manually.
- Used **3+** dictionaries and **80+** values, optimizing solution efficiency.
- Validated solver effectiveness through back testing 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 sign in encryption, resolving **25+** security bugs, increasing user trust.
- Developed image/video support and multi-user chat rooms, boosting user impression by **400+** accounts daily.

## VOLUNTEER EXPERIENCE

### HawkHacks | Event & Logistics Coordinator

September 2023 - April 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