

Syed Rafae Hashmi

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EDUCATION

Wilfrid Laurier University

Honours Bachelor of Science, Computer Science Co-op, Minor in Data Analytics

Waterloo, ON

Sep 2022 - Aug 2026

SKILLS

Languages: C/C++, CSS, HTML, Java, JavaScript, Python, SQL

Frameworks/Libraries: Angular, matplotlib, Node.js, NumPy, Pandas, React.js, SciKit Learn, Tidyverse

Developer Tools: alteryx, Firebase, Git, Jupyter Notebook, MongoDB, MS Office, MySQL, Netlify, Power BI

EXPERIENCE

Software Engineer | HawkHacks - Waterloo, ON

Sep 2023 - Apr 2024

- Utilized **React.js** and **Firebase** to build a **high-performing website** for the hackathon, securing official approval by MLH and **2x** event interest by incorporating interactive features and real-time updates
- Developed a scalable event platform by building a high traffic landing page and, successfully handling **1800+ applications** and supporting **900+**, using **load balancing** and **caching strategies** to ensure performance
- Implemented **Firebase** for **real time data management** and **authentication**, enhancing system infrastructure responsiveness by **50%** and improving user experience through seamless login processes and enhanced **security measures**

Data Analyst Intern | 80eight - Toronto, ON

May 2023 - Aug 2023

- Automated** data extraction using **SQL** and **Python**, saving the data analytics and financial resources team **10+ hours** weekly by implementing **error checking scripts** and scheduling **automated data pulls**
- Optimized queries, reducing **data retrieval** times by **5 minutes** per query; improving data visualization accuracy by **20%** by refining **data transformation** processes and precision of visual outputs using tools like **Tableau** and **Power BI**
- Cleaned and pre-processed raw financial data using **alteryx AI** software, ensuring **90%** accuracy across **1,000,000+** records, by addressing inconsistencies and standardizing data formats

Software Engineer | Laurier Computing Society - Waterloo, ON

Sep 2022 - Apr 2024

- Launched a comprehensive **website** using **React**, **Mantine**, and **TypeScript**, and creating an interactive platform for **4,000+ students**, featuring event calendars and **user feedback** mechanisms
- Organized a **hackathon** with the University of Waterloo, providing support and mentorship to **400+ participants**, increasing satisfaction by **50%** and innovative project submissions using tools like **Slack** and **GitHub**
- Collaborated with an **agile development** team on technical projects and events, increasing member engagement by **60%** through effective **project management**, tools like **Jira** and **Trello**

PROJECTS

A Knight's Tour | JavaScript, React, HTML, CSS

Jun 2024

- Designed a React application to solve the Knight's Tour problem, leveraging advanced backtracking & heuristic algorithms to achieve **100%** accuracy across **500+** test case, enhancing algorithmic problem-solving skills.
- Developed comprehensive unit tests using Jest and React Testing Library, ensuring consistent application reliability.
- Utilized a **neural network** model, achieving **100%** case satisfaction, showcasing advanced **machine learning** capabilities

Bulldozer Price Pro | Python, Jupyter Notebook, NumPy, Pandas, Seaborn, Sci-Kit Learn

May 2024

- Achieved **15%** improvement in model accuracy by implementing **feature engineering** and **hyperparameter tuning** techniques on a **linear regression model** for predicting bulldozer prices.
- Engineered** a scalable machine learning pipeline using **scikit-learn** and **Pandas**, automating data cleaning and feature engineering processes, reducing manual errors and saving significant time
- Cleaned, sorted and pre-processed a dataset of **400,000+** fields, applying data **visualization** and **modeling** to provide clear and actionable insights to stakeholders

CERTIFICATIONS

Database SQL Certified Associate | Oracle University

Expected Completion: Aug 2024

- Gained hands-on experience with Oracle Database functions and expressions, managing large datasets using **SQL-Loader**, and implementing features like flashback queries and regular expressions
- Learned to control user access and ensure data security, applying **Data Definition Language (DDL)** and **Data Control Language (DCL)** commands to manage permissions and maintain database integrity