Syed Rafae Hashmi

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EDUCATION

Wilfrid Laurier University   Waterloo, ON
Honours Bachelor of Science, Computer Science Co-op, Minor in Data Analytics and Big Data Systems   Sep 2026

EXPERIENCE

Software Engineer | *Hawkhacks - Waterloo, ON*   Sep 2023 - Apr 2024

- Utilized **React.js** based architecture, React Router, Context API, **Firebase** authentication, and **Firestore** to build a high-performing website for the Hackathon, securing approval by Major League Hacking and **2x** event registration
- Developed a scalable event platform by building a high traffic landing page and, successfully handling **1800+ applications** and supporting **900+ students**, 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**

Software Engineer | *Laurier Computing Society - Waterloo, ON*   Sep 2022 - Apr 2024

- Launched a **website** using **React**, **Mantine**, and **TypeScript**, and creating an interactive platform for **4,000+ students**, featuring event calendars and **user feedback** mechanisms
- Integrated organization's **Notion CMS** with **Firebase** for real-time data synchronization with live website, enabling enabling seamless content management and updates for **350+** database entries
- Collaborated with a team of **10** members following **agile development** strategies; increased task completion efficiency by **50%** and improved overall productivity by **40%**, leading to the successful delivery of **10+** high-impact projects on schedule

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

SKILLS

Languages: C/C++, Java, JavaScript, Python, SQL, CSS, HTML
Frameworks: Angular, Next.js, Node.js, Tailwind CSS
Libraries: Matplotlib, NumPy, pandas, PyTorch, React.js, scikit-learn, seaborn, TensorFlow, Tidyverse
Developer Tools: alteryx, Firebase, Git, Jupyter Notebook, MongoDB, MySQL, Power BI

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*   Aug 2024