

Syed Rafae Hashmi

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EDUCATION

Wilfrid Laurier University

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

Waterloo, ON

Sep 2026

EXPERIENCE

Data Scientist Co-Op | MAD Elevator - Mississauga, ON

Sep 2024 - Dec 2024

- **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**
- Increased inventory accuracy by **80%** and reduced overstock discrepancies by implementing an **ABC** classification algorithm to rank inventory items based on value and usage
- Created an **automated reporting system** integrated with **Microsoft** Outlook and **Azure** services, eliminating manual reporting tasks for the IT support team and reducing reporting time by **20%**
- Collaborated with the Project Management team to enhance project delivery processes, leveraging **Agile** methodologies like **Scrum** to streamline workflows and improve team efficiency by **15%**

Software Engineer | Laurier Computing Society - Waterloo, ON

Sep 2022 - Jan 2025

- Launched a **website** using **React**, **Mantine**, and **TypeScript**, and creating an interactive platform for **4,000+ students**, featuring event calendars and **user feedback** mechanisms
- **Documented** best practices, processes, and standards, enhancing knowledge sharing and continuity, reducing onboarding time by **15%**, by creating detailed guides and conducting training sessions

SKILLS

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

Frameworks: Angular, Next.js, Node.js, Tailwind CSS

Libraries: Matplotlib, NumPy, pandas, PyTorch, React.js, scikit-learn, seaborn, TensorFlow, Tidyverse

Developer Tools: alteryx, AWS, Azure, Confluence, Firebase, Git, Jira, Jupyter Notebook, MongoDB, MySQL, Power BI

PROJECTS

ONECard PLUS | React Native, JavaScript, TypeScript, CSS

Jan 2025

- Managed a team of developers and designers to build a full-stack mobile application that digitizes Laurier University's ID card system, enhancing convenience for **10,000+** students and staff
- Managed the project following the **SDLC** using **Agile** methodologies such as Scrum, ensuring timely delivery of milestones and achieving a **20%** increase in team productivity
- Integrated **Apple Pay** and **Google Pay** functionality to enable seamless payments for campus services and city bus usage, reducing transaction time by **30%**
- Strengthened data security for **10,000+** users by utilizing an **AWS database** to store student information and implementing end-to-end encryption for device-to-server communication, ensuring confidentiality and compliance with campus **IT policies**

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 model 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

LEADERSHIP

The Citizen's Foundation | Executive Vice President

Apr 2024 - Present

- Organized **10+** fundraising campaigns, raising **\$20,000+**, directly benefiting underprivileged youth in Pakistan
- Controlled event budgets, ensuring optimal resource allocation and reducing costs by **\$2,500+**