# 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

#### Data Scientist Co-Op | MAD Elevator - Missisauga, 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
- Built IT support team performance tracking, eliminating manual reporting, by building an automated **reporting system** integrated with **Microsoft** Outlook with **Azure** services
- 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%
- 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

# 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

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

Libraries: Matplotlib, NumPy, pandas, PyTorch, React.js, scikit-learn, seaborn, TensorFlow, Tidyverse Developer Tools: alteryx, 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
- $\bullet$  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%
- Conducting meetings with **Professors** and **Faculty** to ensure app compatibility with existing campus infrastructure, resulting in a **95**% adoption rate during the app's beta launch

## 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+