

Ali Ahmed

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EDUCATION

Wilfrid Laurier University

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

Waterloo, ON

Sep 2026

RELEVANT EXPERIENCE

Instructional Assistant | Wilfrid Laurier University

Sep 2023 – Apr 2024

- Effectively led and supported a **Python** programming lab focused on **Data Structures**, significantly enhancing students' understanding and application of key concepts through hands-on exercises and personalized guidance.
- Regularly monitored and engaged with **40+** students in the lab, ensuring their comprehension of **Python** concepts, debugging assistance, and overall progress in completing lab exercises.
- Maintained and organized easily accessible resources, including documentation and code examples, to support students' learning and troubleshoot their coding challenges promptly.

Freelance Developer | Self-employed

Apr 2023 – Dec 2023

- Engineered and launched **10+** highly responsive websites using **React**, achieving a **40%** improvement in cross-platform user interface performance and **25%** increase in mobile user retention rates
- Built advanced **React Native** applications by integrating **Bluetooth Low Energy (BLE)** technology, significantly enhancing service connectivity and user experience.
- Improved product satisfaction by redesigning **UI/UX** for mobile applications and websites, resulting in a **20%** increase in user engagement based on feedback and usability testing.

Software Developer | Ontario Virtual Reality Association

Nov 2022 – Feb 2023

- Collaborated with a team of five developers to create a dynamic website, incorporating responsive design and interactive elements, which boosted user engagement by **15%**.
- Designed the 'Meet the Team' page with interactive elements to enhance team visibility and interaction.
- Integrated **10+** individual web pages developed by team members into a cohesive website, achieving a **30%** improvement in site navigation efficiency and consistency in style.

TECHNICAL SKILLS

Languages: C++, CSS, HTML, Java, JavaScript, LaTeX, PHP, Python, R, Sass, SQL, TypeScript, VBA

Frameworks: Bootstrap, Expo, Express, MongoDB, Next.js, Node.js, React Native, Tailwind CSS

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

Cloud/Databases: AWS, Azure, Firebase, MongoDB, MySQL

Technologies: Eclipse, Figma, Git, GitHub, Jupyter, Microsoft Office, Netlify, RStudio, VS Code, Vercel, Visual Studio

PROJECTS

Twitter Stock Analysis

Python, Jupyter Notebook

- Created a **machine learning model** to predict future trends of Twitter stocks using **regression techniques**.
- Enhanced data analytics on a **2000+** observations dataset using tools like **numpy**, **pandas**, **seaborn**, and **scikit-learn**.
- Optimized model performance using various regression models and evaluated with a comprehensive confusion matrix.
- Delivered a **0.84** accuracy and **0.2** MSE for a predictive model, substantiated with a plotted regression graph.

AI Social Media and Image Generator

MongoDB, Express, Node, React, Javascript, HTML, Tailwind CSS

- Designed and integrated an **AI-driven image generation feature** utilizing the **OpenAI API**, seamlessly incorporating it into the existing **MongoDB**, **Express**, **Node**, and **React.js** technology stack.
- Achieved a **25%** increase in retention rate by enhancing the user experience through features such as improved mobile navigation, post sharing, and a powerful search functionality.
- Optimized user-generated image storage/retrieval by **18%**, reducing server response time.

VOLUNTEER AND LEADERSHIP EXPERIENCE

Co-president | Laurier Cybersecurity and Infosecurity

Sep 2023 – Apr 2024

- Led as co-president by creating strategic plans, organizing meetings, and mentoring the executive team.
- Recruited and hired vice presidents, conducted interviews, and made final hiring decisions to strengthen team leadership.
- Organized **cybersecurity events** to boost member engagement and promote knowledge on current industry practices.

CERTIFICATIONS

Udemy: Complete Machine Learning and Data Science Bootcamp