Ali Ahmed

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EDUCATION

Wilfrid Laurier University   Waterloo, ON
Honours Bachelor of Science in Computer Science   2022 – 2026

RELEVANT EXPERIENCE

Instructional Assistant | Wilfrid Laurier University   September 2023 – April 2024
- Effectively facilitated and supported an introduction to Data Structures in Python programming lab.
- 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   April 2023 – December 2023
- Developed **10+** responsive websites in React, enhancing cross-platform user interface performance.
- Created React Native apps integrating Bluetooth Low Energy for improved service connectivity.
- 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   November 2022 – March 2023
- Collaborated in a team of **5** developers to create a dynamic, interactive website, boosting user engagement by **15%** through advanced features.
- Engineered the 'Meet the Team' page, effectively showcasing team profiles through interactive elements.
- 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: Python, JavaScript, Java, HTML, CSS, SQL, R, Sass, C#, C++, PHP
Frameworks: Node.js, MongoDB, React, Bootstrap, Express, Tailwind CSS
Libraries: pandas, NumPy, Matplotlib, scikit-learn, seaborn, Tidyverse
Tools: Visual Studio Code, Visual Studio, RStudio, Jupyter Notebook, Eclipse, Figma, Maple, MATLAB

PROJECTS

Twitter Stock Analysis - Machine Learning Model
Python, Jupyter Notebook
- Developed a machine learning project, predicting future trends of Twitter stocks, using regression models.
- Enhanced data analytics on a **2000+** observations dataset using tools like pandas, seaborn, and scikit-learn.
- Improved algorithm performance with a comprehensive confusion matrix using various regression models.
- 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
- 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 on an AI image generator platform.
- Optimized user-generated image storage/retrieval by **18%**, reducing server response time.
- Implemented an AI image generator using OpenAI API, with MongoDB, Express, Node, and React.js technologies.

VOLUNTEER AND LEADERSHIP EXPERIENCE

Co-president | Laurier Cybersecurity and Infosecurity   September 2023 – April 2024
- Led as co-president by recruiting and managing vice presidents to strengthen team leadership and foster a collaborative environment for all members.
- Organized cybersecurity events to boost member engagement and promote knowledge on current industry practices.

CERTIFICATIONS

Udemy : Complete Machine Learning and Data Science Bootcamp   Issued December, 2022