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 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 — April 2023 – December 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 — November 2022 – March 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: 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
- 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
- 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.
- 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.

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