Ali Ahmed

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EDUCATION

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

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

RELEVANT EXPERIENCE

Instructional Assistant | Wilfrid Laurier University   September 2023 – Present
- Effectively facilitated and supported an introductory Python programming lab.
- Regularly monitored and engaged with **40+** individuals in the lab, ensuring their comprehension of Python concepts, debugging assistance, and overall progress in completing lab exercises.
- Maintained organized and easily accessible resources, including documentation and code examples, to support students' learning and troubleshoot their coding challenges promptly.

Laurier Robotics | Web Developer   December 2022 – Present
- Utilized the React.js tech stack, resulting in enhanced user navigation and data rendering for the website.
- Applied advanced React.js hooks to reduce Laurier Robotics website's load times by **15%**.
- Used React.js to enhance mobile-support of the Laurier Robotics website, boosting cross-device user experience.

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
- Boosted user experience and achieved a **25%** increase in retention rate through features like mobile navigation, post sharing, and robust search on an AI image generator platform.
- Optimized user-generated image storage/retrieval for an **18%** server response time reduction.
- Implemented an AI image generator using OpenAI API, with MongoDB, Express, Node, and React.js technologies.

Laurier Student Study Hub
React, Firebase, JavaScript, HTML, CSS
- Enhanced chat application functionality with the integration of features such as image/video support and multi-user chat rooms, increasing user interaction and resulting in the completion of **25+** feature tickets.
- Boosted application security and data protection with Firebase authentication and cloud storage, implementing encryption and successfully resolving over **30+** security bug tickets.
- Developed a fully functional website and chat application using JavaScript, HTML, CSS, and Firebase authentication, offering a seamless user interface and secure backend.

Crypto Tracker App
React Native, JavaScript, CSS
- Created a comprehensive crypto tracker app using CoinGecko API, leading to a **10%** daily increase in active users as measured by the effective handling of **100,000+** coins.
- Accomplished efficient asset management as measured by a **22%** reduction in time taken by users to manage assets, by creating a dedicated portfolio screen for coin search and wallet addition.
- Boosted user engagement by **12%** as measured by the increase in the number of favorited coins, through the implementation of a watchlist feature.
- Improved user engagement by as shown by the design of an interactive home screen with pagination and dynamic graphical displays of cryptocurrency trends.