JJWAL JOSHI

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Education

University of Houston

Expected December 2024

Bachelor of Science in Computer Science, Minor in Mathematics

GPA: 3.66

Awards

Dean's List (Fall 2021, Spring 2023, Fall 2023, Spring 2024), Dean's Distinguished List (Spring 2022)

Relevant Coursework

Database Systems, Machine Learning, Data Science, Data Structures, Algorithms, Operating Systems

Experience

The Boeing Company

June 2024 - August 2024

Software Engineer Intern

Denver, CO

- Worked collaboratively with a 10-member team of Software and DevOps engineers.
- Automated navigation data analysis tools with shell scripts, reducing manual processing time by 80%.
- Enhanced flight message data validation with Python, improving readability and boosting validation accuracy by 25%.
- Integrated data validation into a CI/CD pipeline and Docker, reducing deployment errors by 40% through user-friendly test result displays.

Projects

chatAIr | Amadeus, RapidAPI, ExpressJS, React Native

February 2024

- Developed a mobile application with React Native which simplifies flight ticket price searches, earning first-place out of 20 teams for innovation and accessibility in the PROS company track at the CodeRED Genesis hackathon.
- Integrated APIs from Amadeus and Rapid API, improving data retrieval speeds by 40%, leading to faster and accessible flight search results for users.
- Utilized advanced Natural Language Processing techniques to accurately interpret user queries, resulting in a significant 30% increase in the efficiency of retrieving relevant flight information customized to their specifications.

Traffic Volume Trends Machine Learning Model | R

December 2023

- Conducted comprehensive analysis of interstate traffic, identifying and quantifying key factors pivotal to traffic volume.
- Leveraged advanced statistical models, such as linear regression and random forests, resulting in a 50% enhancement in predictive model accuracy.
- Implemented advanced data cleaning and analysis techniques, leading to a 40% reduction in prediction errors.

Fluid Dynamics Serial Receiver | Java, C++

April 2020

- Collaborated a team of 2 to create a desktop application for collecting and displaying data from fluid samples.
- Developed a Java Swing application to display the output of 3 sensors detecting chemical content in fluid samples.
- Implemented a CSV file exporter for data to be analyzed in programs like Excel reducing data processing time by 20%

Technical Skills

Languages: Python, R, Java, C++, HTML/CSS, JavaScript/Typescript, SQL

Technologies/Frameworks: Linux, ReactJS, SvelteKit, TailwindCSS, Pandas, NumPy, PostgreSQL, MongoDB

Involvement and Leadership

CougarCS Computer Science Tutor August 2023 - Present

• Guided 11+ students on coding assignments, projects, and lab exercises on a weekly basis.

Houston, Texas

- Increased student exam scores by an average of 12% by collaborating with a team of 30 tutors to centrally plan customized lesson plans.
- Conducted one-on-one and group tutoring sessions for students enrolled in Computer Science courses such as Data Structures.