

UJWAL 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 to streamline manual processing.
- Enhanced flight message data validation with Python, improving readability and accuracy.
- Integrated data validation into a CI/CD pipeline and Docker, improving deployment workflows with 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 to enhance data retrieval for faster and more accessible flight search results.
- Utilized advanced Natural Language Processing techniques to interpret user queries and improve 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, streamlining data processing workflows.

Involvement and Leadership

CougarCS

August 2023 – August 2024

Computer Science Tutor

Houston, Texas

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

Technical Skills

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

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