UJWAL JOSHI

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Education

University of Houston **August 2021 - December 2024**
Bachelor of Science in Computer Science, Minor in Mathematics *GPA: 3.71*

Experience

Paycom **December 2024 – Present**
Software Developer *Dallas, TX*

- Built application features for Expense and Vaccination Management using **React**, **TypeScript**, **PHP**, and **MySQL**, enhancing HR productivity for **37,000+** client organizations
- Led a receipt parsing and OCR initiative that automatically extracted dates, amounts, currencies, and expense-rule data to prefill expense forms, reducing manual entry time by **65%** and improving submission accuracy by **40%**
- Directed development of a **multi-million-dollar** financial integrations initiative, enabling bank transaction ingestion and one-click expense conversion, significantly increasing Expense Management adoption by **22%**
- Optimized CI/CD and background processing workflows using GitLab CI/CD, Docker, and custom CLI scripts, reducing execution time for large and resource-intensive jobs by **30%** and improving deployment reliability

The Boeing Company **June 2024 – August 2024**
Software Engineer Intern *Remote, USA*

- Collaborated with a **10-member** Software and DevOps team to develop and optimize tools supporting navigation data workflows
- Developed **Python**-based stress testing frameworks and executed **500+** reliability tests on mission-critical air mission notification systems, improving stability and issue identification efficiency
- Automated navigation data analysis with shell scripts, eliminating **40%** of manual effort and reducing processing time by **50%**
- Integrated automated data validation into a gitlab **CI/CD** pipeline, decreasing deployment defects by **25%** and standardizing test result reporting for **10+** stakeholders

Projects

CatchUp | *SwiftUI, Firebase, Figma* **October 2024 – December 2024**

- Developed a gamified **SwiftUI** journaling app, turning daily entries into city buildings and visualizing user mood through dynamic weather, boosting daily journaling participation by **40%**
- Integrated Apple **CoreML** sentiment analysis, achieving **85–90%** accuracy in mood detection to generate personalized activity recommendations
- Leveraged **Firebase** to support social check-ins and shareable mood updates, delivering location-based activity recommendations via Apple Maps and increasing engagement by **30%**

chatAIr | *NodeJS, ExpressJS, React Native, Amadeus, RapidAPI* **February 2024**

- Led a team of 3 developers to create a mobile application with **React Native** which simplifies flight ticket price searches, earning first-place out of **20 teams** for innovation and accessibility at the CodeRED Genesis hackathon
- Integrated APIs from **Amadeus** and **RapidAPI**, expanding flight search results from **50** to **150** per query for more comprehensive and accessible results
- Implemented **Natural Language Processing** to interpret user queries, improving query-to-result accuracy to **85%** and enabling personalized flight recommendations for each user

Traffic Volume Trends Machine Learning Model | *R* **November 2023 – 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

Technical Skills

Languages: JavaScript, TypeScript, SQL, Python, PHP, Java, C++, Swift
Libraries: ReactJS, Redux, Redux Toolkit, SvelteKit, ExpressJS, TailwindCSS, Pandas, NumPy
Tools: Figma, MySQL, PostgreSQL, MongoDB, Firebase, REST APIs, GitLab CI/CD, Docker, Splunk