UJWAL JOSHI

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Education

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

Experience

Paycom **December 2024 – Present**
Software Developer *Irving, 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%**
- Served as lead developer on a **multi-million-dollar** financial integrations initiative, enabling ingestion of employee transactions from banks and financial institutions and allowing one-click conversion of transactions into expenses, significantly increasing Expense Management adoption
- 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**
Digital Aviation Solutions - Development Intern *Denver, CO (Remote)*

- Performed stress and reliability testing on mission-critical notification systems, enabling efficient failure tracking and analysis for air mission operations
- Collaborated with a **10-member** Software and DevOps team to develop and optimize tools supporting navigation data workflows
- Automated navigation data analysis processes using shell scripts, reducing manual effort and accelerating data processing
- Implemented data validation within a **CI/CD** pipeline and **Docker** environment, enhancing deployment efficiency and enabling clear, user-friendly test result reporting

Projects

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

- Designed and developed a gamified journaling app using **SwiftUI**, promoting mental well-being by encouraging daily gratitude journaling and personal reflections
- Designed UI in **Figma** and used SwiftUI, to enhance user expeirence with an interactive virtual city-building feature
- Integrated **Firebase** Authentication, **Firestore** Database and Apple **CoreML** to securely manage user accounts, store journal entries, and analyze user mood through sentiment analysis, enhancing personalization and engagement

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 **Rapid API** to enhance data retrieval for more accessible flight search results
- Utilized **Natural Language Processing** 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

Technical Skills

Languages: JavaScript/Typescript, SQL, Python, PHP, Java, C++
Technologies/Frameworks: ReactJS, Redux, TailwindCSS, Pandas, NumPy, PostgreSQL, MongoDB, Firebase