

INDU REDDY PATI

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EDUCATION

Master of Science Computer Science, University of Illinois at Chicago (GPA: 3.83/4) Aug 2021 - May 2023
Coursework: Computer Algorithms, Adv Topics in Software Engineering, Natural Language Processing

B.Tech. Information Technology, Jawaharlal Nehru Technological University Aug 2015 - May 2019
Coursework: Data Structures, Object Oriented Programming, Database Management Systems, Web Technologies

SKILLS

Technical: C, Java, Python, HTML/CSS, PHP, JavaScript, React.js, Type Script, DynamoDB, Oracle SQL, MySQL, JMS(ActiveMQ, IBMMQ), Bash, Spring Boot and Batch, Junit, AWS(S3, Lambda, Redshift).

Tools/Libraries: ETL Tool Datanet, Microsoft Office Tools, Wordpress, Adobe Creative Suite, Agile, Jenkins(CI/CD), Maven, Git, SonarQube.

EXPERIENCE

Software Development Engineer Intern, Amazon May 2022 - August 2022

- Designed and Developed an automated input gathering workflow for scheduling simulation system using ETL, AWS(S3, Redshift, Lambda), Java.
- Reduced user manual efforts to 0% in gathering simulation inputs and improved the customer experience.
- Delivered the project in 9 weeks which is 3 weeks earlier to deadline including E2E testing.
- Created unit tests for the workflow using Mockito and JUnit improving the test coverage and deployed to Prod.

Software Engineer, State Street July 2019 - July 2021

- Refactored the legacy client On-boarding and Market monitoring systems, improving scalability and performance, reducing production issues by 60% .
- Optimized the code and minimized the message processing time overhead incurred for Investment Banking internal applications by 50% .
- Designed and improved the Database for the legacy internal applications - message flow transactions.
- Ideated & Implemented Retry and Alert mechanisms, which minimized impact on transferring business-critical data by more than 40% when production servers are down.
- Received the following awards for flexibility and adapting to different Technologies, and delivering on par with seniors without significant issues while considering resiliency aspects.
 - Doing Better Every Day Award & Spot Award, among 200+ employees. Oct'20 & Mar'20
 - Team Award - Good Work, among 40+ teams. Aug'20

PROJECTS

Sentiment Analysis in Transportation System - Python, Plotly, SQL, JavaScript, Scikit-learn, Numpy

- Designed and Developed a user-friendly common mobility website, a journey planner for commuters adapting the concept of multi-modality. Achieved an accuracy of 91% .
- Applied Sentiment Analysis - Multinomial Naive Bayes, to analyze anonymous feedback in the Transportation system and provide users with real-time personalized graphs to choose a mode of travel.

Tour Guide - We plan for you - Java, HTML/CSS, Google Maps API, JavaScript, SQL

- Developed Tour Guide website, intended to be a travel companion that guides and helps explore unfamiliar locations based on the real-time user preferences.
- Reduced the total distance traveled by the user by providing the shortest route possible.

Resume Screening Project - Python, Pandas, sklearn, matplotlib

- Constructed an ML model to screen resumes, suggests the category the candidate's resume will fit, such as Testing or Java Developer, etc.
- Achieved accuracy of 96% for KNN and 92.2% for Decision Tree on the data set after data cleaning and pre-processing.

Smart Farming - Internet Of Things - Arduino, Ultrasonic, Digital Moisture and LDR sensors

- Created a prototype to reduce wastage of water and electricity in the agriculture irrigation system.
- Incorporated Sun Tracking solar panels, which increased Solar Energy output by 25% .

ACHIEVEMENTS

- Secured an Academic Excellence Award among 2019 Undergraduates at JNTU. Feb'19
- Secured a position in the Top 5 finalists among 20 other teams in the Code-a-thon ServiceNow Application Developer Hackathon. July'18
- Secured 4th Position among top 12 Engineering colleges in National Entrepreneurship Challenge finals (NEC) at IIT Bombay - E Cell. Jan'18
- Secured 2nd position among top 25 teams for developing a prototype of "Smart farming using IoT" in Intra-College Innovative Contest, JNTU. Oct'17

POSITIONS OF RESPONSIBILITY

- Coordinator and Member of PR team for Indian Society of Technical Education Student Chapter from JNTU and Technical Fest Organizer. 2016 - 2019