Sindhuri Kolluri
Software Developer

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- in SindhuriKolluri

EDUCATION

Master of Science in Computer Science   Jan 2023 - Present

NJIT -New Jersey Institute of Technology   Newark, NJ

- CGPA: 3.7/4.0
- Relevant Coursework:
    - Data Structures and Algorithms | Database System Design & Management
    - Programming in java | Principles of Operating Systems | Introduction to big data | Web Development
    - Internet and higher layer protocols | Cloud Computing| R programming | Coporate Finance

Bachelor of Science in Computer Science   Aug 2017 - Aug 2021

TKR college of engineering and technology   Hyderabad, India

- CGPA: 9.4/10

WORK EXPERIENCE

Project Engineer   Sep 2021 - Dec 2022

Wipro Limited   Hyderabad, India

- Collaborated with the Xen Desktop team to enhance operational efficiency by **30%** and decrease downtime by **20%**, while leveraging Citrix virtualization for deploying virtual machines and utilizing Login VSI for conducting load testing.
- Automated manual image testing cases with **PowerShell** to slash testing time by 50% and enhance accuracy by 25%.

TECHNICAL & KEY SKILLS

Technical Skills

Programming Languages: Java, Python, SQL, HTML, CSS, JavaScript, PHP

Frameworks & Libraries: XGBoost, Scikit-learn, Apache Spark, Hadoop, Flask (for Dockerized services), Login VSi, Citrix virtualization

Web Technologies: HTML5, CSS3, Bootstrap, PHP

Databases: MySQL, SQL Server

Data Structures & Algorithms: Proficient in data structures, algorithms, and complexity analysis

System Design: Experienced in designing systems like web crawlers, API rate limiters, and microservices architecture

Big Data Technologies: Hadoop, Oozie, MapReduce

Machine Learning: Feature engineering, hyperparameter tuning, predictive modeling

Development Tools: Git, Docker, AWS (EC2), Flask

Software Development Methodologies: Agile, Scrum

Additional Skills

Analytical Skills: Strong data analysis and interpretation abilities

Collaboration: Team leadership and collaborative project development

Problem-Solving: Effective troubleshooting and optimization strategies

Studied Nutrition

ACADEMIC PROJECTS

- Automotive Online Application System
    - Developed an application for customer registration, service appointments, and transaction processing. Integrated front-end functionalities with a backend database.
    Technologies used: **HTML, CSS, JavaScript, SQL, MySQL.**

- **Course Selection Web Application**

  HTML form with course selection and semester options, along with a servlet program to handle course and semester input, displaying appropriate messages and handling errors.

  Technologies used: HTML, CSS, Java, Servlets.

- **Online Shopping Cart**

  Designed five pages of online shopping, sell product and check out cart. Knowledge: HTML, PHP, MySQL and CSS (used bootstrap)

- **CPU Scheduling Tool – Group Project Lead**

  Led a team to implement various CPU scheduling algorithms, including FCFS, SRT, SPN, HRRN, Round Robin, and Feedback, in an operating system environment. Collaborated on requirement analysis, design, implementation, and testing phases.

  Technologies used: HTML, CSS, JavaScript, Database.

- **Big Data Flight Data Analysis**

  Established a scalable Hadoop and Oozie infrastructure on AWS EC2 instances for efficient processing and analysis of large-scale flight data.

  Orchestrated complex Oozie workflows and engineered sophisticated MapReduce algorithms to derive actionable insights into airline operations, demonstrating advanced data processing skills and strategic analysis capabilities.

- **House Price Prediction Model**

  Developed a predictive model for house prices using machine learning algorithms, including feature engineering, data preprocessing, and hyperparameter tuning, to enhance accuracy. Utilized Python libraries like XGBoost and Scikit-learn for model training and evaluation. This project served as a practical application of learned concepts in an R programming class.

- **Data Processing Framework and Beverage Quality Analysis**

  Established a Spark cluster using Flintrock for beverage quality analysis. Implemented model training and deployed results via a Dockerized service, facilitating real-time quality assessments.

CERTIFICATIONS

Coding Ninjas: Java and data Structures   **NPTEL:** Java, DBMS, C++   **INTERNSHALA:** Web Development