Sri Harrsha Kolli

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Education

Master of Science in Computer Science   **Aug 2022 – May 2024**
University of Texas at Arlington, Texas   CGPA: 3.9 / 4
Related coursework**:** Web Data Management, Data mining, Machine Learning

Bachelor of Technology in Computer Science and Engineering   **June 2018 – Apr 2022**
PVP Siddhartha Institute of Technology, India   CGPA: 8.4 / 10.0
Related coursework: Java Web Technologies, Software Engineering, Database Management

Technical Skills

Programming Languages: Java, JavaScript, TypeScript, Python, C++, C#

Frameworks and Tools: React, AngularJS, Spring Boot, Django, Flask, Node.js, Laravel, AWS, Apache Hadoop, Spark, Android Studio, Power BI, Git, Docker, Jenkins, Junit, Selenium

Databases: MySQL, MongoDB, DynamoDB, GraphQL

Professional Experience

Java Developer   **Aug 2024 – Present**
BNS International   Hyderabad, India

- Developed web applications for clients. Built a reliable backend using **Java**, **Spring Boot** and **microservices** architecture. Created **RESTful APIs** to handle requests sent from the **Angular**.js frontend pages. Implemented dynamic content rendering for better user experience.
- Eliminated extra steps by enforcing **OAuth** on a login system improving authentication efficiency.

Software Developer   **Jan 2021 - July 2022**
Ujjwal Systems   Hyderabad, India

- Developed a web portal using **Node.js, Express.js** and **React**.js for clients like electricity boards and solar farms to monitor their systems in real time from anywhere.
- Designed authentication and access management using **JWT**, and **RESTful APIs** to fetch and process data from the monitoring systems, providing accurate visualization of real-time and historical data.
- Built inventory and transaction management features using **AWS DynamoDB** and **Java**, ensuring accurate tracking of hardware parts shipped in bulk orders. Improved cross-device compatibility, leading to 50% more mobile traffic.

Project Experience

Learning Management System

- Built a web-based platform for students and instructors using **React.js, CSS** and **Laravel (PHP)**, offering a user-friendly interface and system functionality supporting 500+ concurrent users without delays.
- Added features like messaging, forums, dark mode, dynamic report generation, user dashboards and file uploads to enhance user experience and accessibility.
- Used **Git** and **MySQL** for storing data and user preference settings, and **JWT** for access management.

Personalized Career Recommendation Assistant

- Developed an intelligent assistant using **Cohere Gen AI** to provide tailored career advice based on user inputs like interests, background and aspirations.
- Built a real-time chat interface with **React.js** and **Chatscope UI** Kit for an intuitive messaging experience, handling API requests with **React Hooks** for asynchronous communication and proper data exchange between the language model and front end. Used system prompts to improve efficiency with 99% context retention in conversations.

Parking Lot Occupancy Detection

- Developed an **OpenCV** based system in **Python**, utilizing **Hough Transform** to process the input videos taken from **Kaggle** and around UTA achieving 95% accuracy in detection of available spaces.
- Integrated **YAML** to manage parking space coordinates dynamically and containerized in **Docker**.
- Designed parking space visualization with status indicators to show real-time availability.

Achievements

- **Smart India Hackathon 2k21 –** Got 2nd Place in the competition where 1000+ teams participated.
- **AIC Conference Proceedings** – Published a paper on stock market prediction using XGBoost and Random Forest classifiers which achieved an accuracy of 84%. (**Link**)
- **Certifications** – **AWS** Developer Associate, **Microsoft**: Azure Data Fundamentals, **Spoken Tutorial** (Java, PHP, MySQL)