Veera Bhanu Prakash Reddy Annem

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↖ https://bhanuprakash271.github.io/portfortio-info/   ○ https://github.com/bhanuprakash271/portfolio-info

Professional Experience

Graduate Teaching Assistant, University of Central Florida ⧉   02/2022 – 12/2023
Orlando, United States
- Served as a mentor for more than 200 students engaged in developing web application projects utilizing **React JS,** **HTML,** and **CSS**.
- Offered guidance to students on **MySQL** server database concepts, Web-Based Information Technology, and **Programming in C**, conducted 4 in-person lab sessions each week, and proctored exams.

Software Engineer (Client: Walmart), Infosys ⧉   06/2017 – 11/2021
Chennai, India
- Built user interface with **React JS, MUI,** and **Redux**, while implementing backend services composed in **Java**.
- Handled Pathways application that dealt with the development of user interface designs, managing & handling the data using local/session storage, and service calls to store data by employing **Java**, **Angular**, and **Rest API**.
- Completed and launched the Subzero Admin application within a remarkable 2-month timeline, saving **50%** in both time and project costs compared to the initially estimated 4-month duration.
- Implemented API services in **Node JS** using graphql to store and fetch data from **MySql** DB. Developed Restful Web services utilizing the **Springboot**, and **Hibernate** frameworks, focusing on efficient backend functionality.
- Created Subzero Admin application with both Mobile and Desktop Compatibilities and integrated it with a service to synchronize data from 3PI applications.
- Designed a data pipeline for the user to perform modifications in the database while integrating two applications namely Academy and Badge involving tracking and assigning compliance codes and ethics for associates.
- Skilled in writing complex queries, and aggregations, and utilizing **MongoDB**'s unique features to ensure efficient and scalable data storage and retrieval.
- Engineered and implemented **Express JS** and **GraphQL** technologies to streamline the development of the Academy application, resulting in a 30% faster loading time and a 25% increase in user engagement.
- Actively participated in Scrum calls with business analysts to decipher the requirements and identify key areas for improvement to enhance user experience further.
- Utilized **Docker** and **AWS** to deploy the application successfully on 3 different environments. Successfully integrated and customized features like SearchSelect (React-Select) making the search functionality faster by 20%.

Technical Skills

Programming languages (Java/J2EE, JavaScript, Python, TypeScript) | **Databases** (MySQL, MongoDB, DB2, Maria DB, PostgreSQL)

Frameworks (React JS, Node JS, Express JS, Angular, Spring Boot, Redux, HTML, CSS, BootStrap, GraphQL, Hibernate)

Software Tools/IDE (Visual Studio, MySql Workbench, Eclipse, Google colaboratory, Postman, DBeaver, QMF)

Management Systems (Jira, GitHub, Git Bash) | **Others** (REST API, JSON, Kafka, MUI, AWS, npm)

Education

Master of Science in Computer Science, University of Central Florida   01/2022 – 12/2023
CGPA: 4/4   Orlando, United States

Projects

Academy Application (React Js, Java, GraphQL, Express JS, MySql)
- Academy is an application that deals with tracking and assigning a variety of courses for associates by Academic trainers. On completion of specific courses by the associates and also considering their performance, badges will be awarded to the associates.

SubZero Admin Application (Java, React JS, Redux, Node JS, Spring Boot, DB2)
- Subzero Admin is a platform discovered for administrators to manage teams, associates, courses, and topics. Administrators can create and delete teams, search for associates, assign them to teams, and associate courses with specific teams.
- Moreover, administrators can define and link subtopics to corresponding topics, as well as align these topics with specific areas of focus, achieving a 50% reduction in administrative workload

Cache Simulator (Java, React Js, Chart Js)
- Introduced a Java application called Cache Simulator to analyze and compare the performance, area, and energy of different memory hierarchy configurations using a subset of the SPEC-2000 benchmark suite.
- The cache simulator implements a flexible cache and memory hierarchy simulator with 4 cache replacement policies such as LRU, pseudo-LRU, Optimal policy, and FIFO.

Rainfall Prediction with Machine Learning (Python, ScikitLearn, Data Visualization, React JS)
- Using precision score, ROC AUC, Cohen's Kappa, and total run time, we determined which machine learning model performed best, resulting in an accuracy of 92.3%.
- Python and Scikit-Learn are used for data exploration, data preprocessing, handling class imbalance and missing values, imputation, transformation, feature selection, and model training.

Achievements and Awards

Infosys
- Presented with a certificate of achievement from Infosys for securing *1st* position in the BTN Ideathon Event conducted across different development centers of Infosys in India.
- Rising Star Award for exemplary performance in developing the NextGen Learning application maximizing user interoperability.Insta awards and commendable ratings for two consecutive years to have acted as owner.