BHAVYA RANGU

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EDUCATION

California State University, Fullerton, Master's in Computer Science   August 2022 - May 2024
SNIST, Hyderabad, Bachelor's in Electronics and Communication   August 2017 - July 2021

EXPERIENCE

California State University, Fullerton – IT STUDENT ASSISTANT   May 2023 - May 2024
- Assisted in designing, maintaining, and optimizing databases. Developed and maintained websites using HTML, CSS, JavaScript, and CMS platforms. Monitored site performance, security, and analytics to ensure optimal operation

Infosys, Hyderabad- Software Engineer   Sep 2021 - Aug 2022
- Led full-stack development using Angular, Node.js, .NET, C#, Entity framework 6.0 and Spring Boot, integrating microservices for a 25% scalability improvement.
- Debugged the application using Chrome Inspector, Firebug and many other debug tools. Inspected migration of cloud infrastructure to AWS, resulting in a 30% cost reduction and increased reliability.
- Collaborated with clients to integrate innovative Machine Learning modules into their application significantly improving efficiency and effectiveness.
- Involved in implementation of RESTFUL web service APIs using Node.js, .NET, which were consumed by making AJAX calls and JSON as data exchanging tool. Integrated third-party APIs and services to expand application functionality and provide richer features to end-users. Worked with partners and clients at every stage of implementation of the integration, for instance to gather requirements, review completed implementation.
- Implemented continuous integration and continuous delivery (CI/CD) pipelines using tools such as Jenkins, GitHub CI, and Docker, automating the testing and deployment processes to ensure rapid and reliable delivery of new features.
- Gained an experience with test-driven development and agile environment. Participated in regular sprint planning, backlog grooming, and retrospective meetings, contributing to continuous improvement of development processes and team efficiency.

Tech Mahindra, Hyderabad – Full Stack Developer   Jan 2020 – Aug 2021
- Involved in analysis, design, and development and testing of the application and participated in Daily Stand - Up scrum for client requirements.
- Designed user-centric front-end applications and interactive web pages utilizing HTML, XML, and CSS.
- Developed navigation bars and enhanced interactivity on web pages through jQuery plugins, AJAX, and JavaScript.
- Undertook a comprehensive website redesign to align with web and industry standards. Used Node.js frameworks in the construction of web applications. Developed and maintained server-side applications using Java8, and core Java, ensuring robust and scalable backend solutions.
- Developed Single Page Web Application with React.js, Redux, Express.js, Node.js, REST API, and MongoDB. Used Postman to test API and used GIT as version control tool. Used React, JavaScript, Query to create Controllers to handle events triggered by clients and send request to server.

DARWINBOX, Hyderabad – Web Developer Intern   May 2019 - Nov 2019
- launched a feature-rich website, attracting 1,000+ monthly visitors with HTML, CSS, and JavaScript
- Handled security (90% reduction in vulnerabilities) and UX (20% enhancement) through cookies, and design optimization. Made web pages dynamic and asynchronous using AJAX, JSON and XML.

TECHNICAL SKILLS

- **Languages/OS:** Python, Java, C, C++, SQL, C#, PHP, SQL, R, Golang, Kotlin, Ruby on Rails, HTML, CSS, JavaScript, TypeScript, Unix, Linux.
- **Tools and Frameworks:** Docker, Angular, Kubernetes, Git, Gitlab, JIRA, Jenkins, Selenium.
- **Web/Mobile Development:** Flask, Django, Node, Express, React, Next, Angular, Redux, Spring Boot, REST, Android Studio, Swift, .NET.
- **Databases**: MySQL, SQLite, MongoDB, PostgreSQL, Cassandra.
- **Cloud Technologies:** AWS (Lambda, EC2, S3, ECR, Route 53, IAM, DynamoDB, RDS, EBS, Kinesis), Azure SQL Database, GCP

PROJECTS

Real-Time Data Processing of Split wise Data using Big Data Technologies
- Handling and analyzing the information available in the application Split Wise in real-time so we can get the cost designs, person investing propensities, and suggestions for taking a toll optimization.
- Technologies: Apache Kafka, Apache Spark, Apache Scala, Apache Cassandra, Spring Boot, JetBrains Kotlin, Docker Desktop, Docker Compose, Gradle, SBT.

CHATBOT
- Developed an innovative Chatbot application to provide intelligent and context aware assistance to users. It takes the input of both voice and text and answers according to the query. I had integrated google authentication to it.
- Designed and developed RESTful APIs for seamless communication between the frontend and backend services, ensuring efficient data handling and real-time responses. Deployed and managed the application on Google Cloud Platform (GCP), leveraging its services for scalability.

E commerce book store
- Developed an e-commerce book store project based on ASP.NET Core and C# for robust backend development, with Entity Framework Core for database management. I had used Stripe for payments, Twilio for SMS notifications, and supports OAuth authentication via Facebook and Google. Docker is used for containerization, ensuring consistent environments and streamlined deployments.

Decentralized Voting Application
- Developed a secure and transparent decentralized voting application leveraging blockchain technology. Utilized Hardhat for smart contract deployment, and Volta for Node.js version management. Designed and implemented the frontend using JavaScript, HTML, and CSS, React.