Jeevan Reddy Kommula

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EDUCATION

University of Central Missouri, Lee Summit, Missouri

GPA 3.5/4.0

Master of Science in Computer Science

Aug 2021 - Dec 2022

Coursework: Java, Cloud Computing, Python, Artificial intelligence, Advanced Algorithm, Big Data, special Topics in Computer Science, Complier Design

Lovely Professional University, Punjab, India

GPA 3.7/4.0

Bachelor of Technology in Computer Science and Engineering

Aug 2016 - May 2020

Coursework: Data Structures & Algorithms, Programming with C, Object Oriented Programming through C++, Java, Operating Systems, Design and Analysis of Algorithms, Computer Networks, Computer Organization & Architecture.

TECHNICAL SKILLS

Languages: C, C++, Java, Python

Databases: MySQL, MongoDB, PostgreSQL, Redis

Web Technologies: HTML5, CSS3, Bootstrap, GraphQL, Rest API, Apache Kafka, PHP

Frameworks: Node.js, React.js, Redux, Express, Passport.js

Tools: Git, Visual Studio Code, Eclipse, Postman, JIRA, JMeter, Mocha, Junit.

Deployment: AWS Cloud (S3, RDS, EC2, ECS), GCP, Docker, Kubernetes

WORK EXPERIENCE

Programming Assistant | University of Central Missouri, Lee Summit, Missouri

Oct 2021 - Jun 2022

- Collaborated with a team of 6 for refactoring and optimizing the code before each build release to user acceptance testing (UAT).
- Functioned on development of login system and scholarship module using PHP framework, ran on Apache, connected to the MySQL server, and solved the frontend bugs using HTML5, CSS3, Bootstrap, and jQuery.

Software Engineer | Middleware Information Technology Services | Hyderabad, India

Jul 2020 – Aug 2021

- Collaborated with a team of 5 members and worked on the development of an E-learning web application using the MERN stack.
- Structured new functionalities and **RESTful** web APIs by 30% for accurate response object defining.
- Spearheaded functionalities like a user-specific dashboard, study mode, exam mode, and quiz sections. Itemized marked courses as favorites for easy accessibility and a search field for filtering the course content that responds under **300ms**.
- Debugged core dumps, memory leaks, and multithreading issues using GDB to resolve time-sensitive production issues.
- Remodeled the application dashboard, study, and exam mode sections by resolving 15+ defects with 0 escalations and client issues.

Software Engineer Intern | Middleware Information Technology Services | Hyderabad, India

Feb 2020 - Jul 2020

- Maintained and enhanced the performance of the backend by 30% of a logistics-based web application.
- Innovated new functionalities, backend in Node.js, MySQL from scratch that shows information about all the bookings.
- Accelerated Redis for caching mechanism and structured 10+ **RESTful** APIs by optimizing all APIs response time below 300ms.

PROJECTS

Developers Community | (ReactJS | NodeJS | MongoDB | MySQL | Apache Kafka | Redux | AWS | Rest API | Redis).

- Designed an interactive chat system, initiated modules like posts, bookmarks, and utilized **NGINX** to improve security by 50%.
- Deployed 3-tier distributed app with message queues as middleware and scaled to handle a load of **10,000** questions simultaneously.
- Enforced Kafka in 3 servers for request-response cycle and increased by 40% when tested with **10,000** concurrent users(**JMeter**).
- Expedited Redis for the faster response time (15-30%) on the pages and React.js (*frontend*), Node.js (*backend*), and Redux to manage the workflow of frontend data, databases in AWS RDS, Junit Testing, and AWS deployment.

Ecommerce Marketplace | (ReactJS | NodeJS | MongoDB | MySQL | Kafka | Redux | AWS | Rest API | JMeter | GraphQL).

- Developed a full-stack distributed prototype of the Etsy marketplace application scaled to handle over **10,000** users and products.
- Hosted application & database on the **AWS** cloud with **MongoDB** replica set clusters and handled fault tolerance for EC2 instances during partition of database servers and effective load balancing using **AWS ELB** & facilitated Redux for global state management.
- Devised Express, Node.js as a backend server, Kafka messaging queue for request-response cycle, Passport.js for authentication.

Sorting Visualizer / (HTML, CSS, JavaScript)

Visualized different sorting techniques (Bubble, Merge, Selection, Insertion) in real-time using web application.

CERTIFICATIONS AND ACHIEVEMENTS

- Certified in Microsoft Azure cloud development and security technologies like AZ-500, AI-900, DP-900, SC-900, and AZ-900.
- Certified 'A' Grade in <u>Applied Cybersecurity Essentials (ACE)</u> for web applications from Purdue University, Indianapolis, USA.
- Awarded Infosys Insta Award for contributing towards client project by scaling up in React. Js and assisting in QA activities.