Pavan Kalyan Duppati

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EDUCATION

Master of Science - Computer Engineering

Arizona State University, Tempe, AZ

Bachelor of Technology - Electronics & Communication Engineering

Maulana Azad National Institute of Technology, Bhopal, India

TECHNICAL SKILLS

Programming Languages: JavaScript, Hapij.s, Node.js, HTML5, CSS, Bootstrap, C, C++, SQL
Frameworks & Tools: React.js, Docker, Jenkins, Spinnaker, Vscode, GIT, JIRA
Database & Cloud: MySQL, MongoDB, AWS, PostgreSQL, Google cloud.
Miscellaneous: Data Structures & Algorithms, OOPS, DevOps, Agile.

PROFESSIONAL EXPERIENCE

Frontend Developer, OneDrug ASU EPICS   June 2024 - Present
- Implemented APIs to integrate data and functionality into the website. Collaborated with the data analytics team to develop a front-end gauge capturing every customer interaction.
- Developed efficient web applications using React.js and SpringBoot improving operational efficiency.

Software Engineer, Capgemini   August 2019 – August 2022
- Developed highly efficient, responsive search interfaces and custom components for the web application using ReactJS, JavaScript and Redux resulting in a decrease in search query response time and improved user experience.
- Spearheaded the end-to-end product development from requirement gathering to successful deployment for features used by 25 million customers, resulting in a 30% increase in user engagement and boost in customer satisfaction rates.
- Applied Redux to build a central store for state management, which enables different components to access different actions and states.
- Enforced and monitored end to end process by using Cucumber automation testing infrastructure, debugging, fixing production issues, and deployments using the spinnaker pipeline.
- Implemented and maintained front-end web applications, resulting 30% reduction in loading speeds and conversion rates by utilizing React.js.
- Implemented micro-frontend architecture, to ensure reusability and efficiency.
- Translated UI/UX figma design mockups into visually appealing interfaces, focusing on optimizing performance and responsiveness for seamless user experience.
- Maintained Clear communication across cross-functional teams and continuously upgraded skills through learning initiatives and knowledge sharing sessions.
- Used Node.js to structure JavaScript code to build Restful webservices and endpoints.
- Handled the role of scrum master for a quarter, administered and organized Agile processes including Sprint planning, daily scrum calls, sprint reviews and retrospectives and improved the processing gaps across teams.

PROJECTS

Image Recognition as a Service using AWS
- Designed and created a scalable cloud application providing Image Recognition as a service, leveraging AWS cloud IaaS resources.
- Employed AWS EC2 to deploy an image classification model, utilized AWS S3 for data storage and AWS SQS for automated scaling.
- Implemented an elastic system on AWS EC2 instances automatically initiate, perform image classification tasks based on queue input volume, and then shut down within 30 seconds to optimize resource utilization.

Emotion Based Music Player.
- Built a music player with necessary features such as play, pause, skip, reshuffle using React.js that plays songs on the basis of mood of the user and significantly enhances it by 60%.
- Deployed python file containing fuzzy logic on an AWS instance and leveraged backend technologies to retrieve and process data efficiently.

LEADERSHIP & ACHIEVEMENTS

- Managed a team of 4 people during project development, guiding them in handling delivery objects and achieving successful delivery. Received **Project Star** award for my contribution at Capgemini.
- Handled the role of head student volunteer in Training and Placement cell of NIT Bhopal.