Mahathi Bandari

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TECHNICAL SKILLS

Programming Languages: Java(J2EE), Python, JavaScript, TypeScript, C++, C#

Web Technologies: HTML5, CSS, Bootstrap, PHP, D3.js, Angular JS, React, Angular, Spring MVC, Spring Boot, Flask, Node.js, ES6, JSP, AJAX, Hibernate

Databases: SQL, MySQL, Postgres, MongoDB

Tools: Jenkins, Git, Docker, Kafka, Postman, JIRA, Confluence, AWS, Azure, Postman, Kubernetes

WORK EXPERIENCE

Software Engineer Assistant, University of North Carolina, Charlotte   **August 2023 - May 2024**

- Developed a Social Media platform using React.js, Material UI, and Node.js, enabling users to add, delete, and comment on photos and optimized MongoDB schema for efficient data storage and retrieval.
- Created automation to clone GitHub repos, slashing TA assessment time from half a day to 5 minutes.
- Guided Agile teams, defining user stories and coordinating meetups, driving a 20% boost in collaboration and a 15% increase in development efficiency.

Software Engineer, NCR Corporation   **January 2020 - December 2022**

- Developed the "Builder" product, an ATM solution for creating flows and directing interface screens utilizing Angular for the front-end UI, SpringMVC on the back-end, and integrating with a PostgreSQL database.
- Enhanced ATM solution UI with Angular migration, yielding a 10% performance boost. Streamlined load times and interactions of screens with responsive design.
- Utilized the Hibernate framework to develop an efficient data access layer enhancing application performance.
- Engineered morphs microservice using RESTful APIs, reducing efforts for creating ATM screens by 50%, and presented processes to communicate with stakeholders effectively.
- Built shell scripts and pipelines for Jenkins, Git, and Docker, cutting errors by 21% and documented processes for consistency.
- Integrated JFrog with CI/CD tools to optimize artifact storage and retrieval, enhancing deployment workflows.
- Upheld code quality with Protractor and JUnit, achieving 92% code coverage while also enforcing rigorous code review practices.
- Documented test results with meticulous attention to detail, facilitating effective coordination with cross-functional teams.

Software Engineering Intern, Virtusa   **May 2019 - July 2019**

- Created a coding platform using ReactJS, NodeJS, and MySQL, with custom IDEs and integrated compilers, engaging over 500 users and fostering skill development and collaboration.
- Curated a dashboard to categorize 100+ coding problems, monitored KPIs, and enhanced user access to practice exercises.
- Crafted detailed coding performance analytics using MDB Bootstrap Charts for informed decision-making.

Software Engineering Intern, Amazon   **February 2019 - May 2019**

- Designed a PHP school management web application with MySQL integration. Customized user-specific modules ensuring tailored interfaces and efficient operations.
- Designed a QR code-based attendance system, reducing lecturer workload by 70% and streamlining administrative processes.

ACADEMIC PROJECTS

- **Covid-19 Dashboard**   **May 2023**
  Created an interactive COVID-19 dashboard using D3.js featuring a map displaying case and vaccine data, line graphs, and scatter plots showing trends and correlations between state GDP and vaccination rates.
- **Sentiment Analysis of Code Mixed Languages**   **December 2023**
  Developed a model using Python for real-time sentiment analysis of code-mixed languages with TextBlob and created a Flask UI to display classifications as "Positive," "Negative," or "Neutral.
- **Fest Management**   **September 2022**
  Orchestrated the creation of an intuitive event registration site and engineered secure payment processing systems using React, and Node.js.

EDUCATION

MS in Computer Science - *University of North Carolina at Charlotte (CGPA - 4.0/4.0)*   **January 2023 - May 2024**
Relevant Courses: Software System Design Implementation, Information Visualisation, BigData Analytics, Cloud Computing, Data Mining

BTech in Computer Science - *Jawaharlal Nehru Technological University (CGPA - 3.7/4.0)*   **August 2016 - May 2020**
*Relevant Courses***:** Data Structures and Algorithms, Object Oriented Programming, Operating Systems, Web Technologies, Database Systems

CERTIFICATIONS

- Scored 90% on the Oracle Certified Associate (OCA) Java SE 8 Programmer certification exam conducted by Oracle.