Prathibha Reddy Kasarapu

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PROFESSIONAL SUMMARY

Experienced software professional with expertise in Java, Spring Framework, Spring Boot, and backend development. Proficient in front-end technologies like React JS, JavaScript, HTML, and CSS for creating responsive user interfaces. Skilled in SQL, Hibernate, and database optimization, with hands-on experience using Postman for API testing, Docker for containerized deployments, and Kubernetes for container orchestration. Experienced in CI/CD pipelines for streamlined development and deployment processes, and proficient in Agile methodologies, ensuring efficient project delivery and high-quality results.

EDUCATION

University of Cincinnati, Cincinnati, OH   **May 2025**
Master's in computer engineering   **GPA:3.45**

CMR College of Engineering & Technology, Hyderabad, India   **Jul 2021**
Bachelor of Technology in Electronics and Communication Engineering   **GPA:9.12**

TECHNICAL SKILLS

Development: Java 8, Python, JavaScript, React js, Spring MVC, Spring Boot, Microservices, REST APIs, JDBC
Databases: MySQL, T-SQL, MongoDB, PL/SQL
Cloud & DevOps: AWS (EC2, RDS), Docker, Kubernetes, CI/CD pipelines
Development Tools: IntelliJ, Postman, Maven, GitHub
Project Management: Agile, Scrum, Jira, Git, Bitbucket
Software Development & Testing: SDLC, JUnit, Mockito
Core Competencies: Data Structures, Algorithms, Design patterns, Complexity analysis, Object-Oriented design, Communication skills

PROFESSIONAL EXPERIENCE

Software Developer, Intelligenie, GA, USA   **Jan 2025**

- Designing, coding, and testing applications using **Java 8, Spring Boot**, and SQL for scalable software solutions.
- Collaborating with teams to analyze requirements and ensure reliability with unit testing using **Mockito**.
- Maintaining and optimizing systems with **MySQL** while integrating new technologies for improved performance.

Software Engineer, Capgemini, Hyderabad, India   **Apr 2022-Jul 2023**

- Followed **Agile/SCRUM methodology**, and facilitated the analysis, design, coding, and unit testing of business applications, resulting in a 20% improvement in project delivery time.
- Incorporated **Hibernate** and **SQL** for efficient communication with SQL Server, and reformed database solutions using **Microsoft SQL**, resulting in a 15% performance improvement.
- Engineered scalable web applications with **React JS** and **Java Spring Boot framework**, improving user experience and performance by 30%, and reducing page load times by 40%.
- Upgraded version control processes using **GIT** and **Bitbucket**; ensured version control integrity, reduced integration issues by 30%, and enhanced team collaboration
- Leveraged **Postman** for API testing, **Docker** for containerization, and **Kubernetes** for orchestration, improving deployment efficiency by 40%, ensuring consistent performance, and enhancing API reliability by 99%.

Associate Software Engineer, Capgemini, Hyderabad, India   **Jul 2021-Mar 2022**

- Engineered and deployed scalable web applications using **Java Spring Framework**, achieving a 30% improvement in user experience and a 15% increase in user retention rates.
- Optimized database solutions with Microsoft SQL, designing complex **stored procedures** and queries, resulting in a 25% reduction in query execution time.
- Integrated and maintained **RESTful APIs** for seamless front-end and back-end communication, improving data consistency and reducing latency by 20%.
- Developed and tested high-reliability back-end services using Java, Spring Framework, and **JUnit**, achieving a 40% reduction in bugs and ensuring optimal system performance.

Software Developer Intern, AmeriSpace, Hyderabad, India   **May 2020-Jun 2021**

- Developed and optimized **RESTful APIs** using **Java** and **Spring Boot**, reducing response time by 20% to enhance application performance, and tested endpoints extensively using **Postman** to ensure reliability and functionality.
- Designed and implemented efficient **MySQL queries**, improving data retrieval performance by 15% for seamless database operations.
- Streamlined back-end processes by designing a robust system that improved data ingestion speed by 40% and enhanced system reliability, enabling real-time analytics for over 500 monthly users across platforms.

CERTIFICATIONS AND ACCOMPLISHMENTS

- Certified in Agile Software Development from Coursera, offered by the University of Minnesota, with a focus on Agile principles, Scrum methodology, and iterative development processes to improve team collaboration and project delivery.
- AWS Certified Developer – Associate, validating proficiency in designing, developing, deploying, and maintaining scalable and secure applications using AWS cloud services.
- Awarded a Certificate of Appreciation from Capgemini for delivering innovative technical solutions and achieving measurable results in the Penske client project, demonstrating strong collaboration, technical expertise, and client-focused delivery.