Abhivarma Birru

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PROFESSIONAL SUMMARY

Software Engineer with 4+ years of experience in developing scalable end-to-end web applications. Expertise in Java, React, TypeScript, and JavaScript. Proficient in object-oriented programming, front-end development and back-end development.

WORK EXPERIENCE

Senior Software Engineer   **July 2024-Present**
Neo4j - Quadrant Technologies   **Redmond, WA**

- Built a high-performance graph database analytics dashboard using React, TypeScript, Java and Spring Boot, enhancing user experience for technical customers.
- Enhanced state management with Redux, boosting application load speed by 35% and ensuring centralized data flow.
- Optimized backend systems using Java multithreading and advanced concurrency principles, improving throughput by 20% for user-facing applications.
- Strengthened CI/CD pipelines with automated integration testing using JUnit and Jest, reducing deployment-related incidents by 40%.
- Delivered high-quality software features by coordinating with cross-functional project teams and stakeholders at Neo4j.

Software Engineer   **December 2020 - July 2022**
Cognizant   **Remote**

- Developed high-performance single-page applications (SPAs) for FMCG business operations using HTML, CSS, React.js and Redux, reducing render times and improving overall application responsiveness.
- Designed a modular, scalable front-end architecture using MVC design principles, improving code maintainability and development efficiency by 30%.
- Implemented comprehensive testing strategies using Jest and React Testing Library, reducing production bugs by 45% and ensuring consistent, reliable application behavior.
- Engineered backend services using Java 17, Spring Boot, and Hibernate ORM, demonstrating full-stack capabilities and resulting in system-wide performance optimization.
- Designed and implemented RESTful web services by creating efficient middleware solutions, enhancing data communication and reduced API latency by 25%.
- Led collaborative code review processes on centralized Git-based code repositories, adhering to best code practices and maintaining high code quality standards across distributed agile development teams.

OTHER EXPERIENCE

Web Developer   **October 2022 - May 2024**
University of North Texas   **Denton, TX**

- Developed a scalable dining services platform using ReactJS and Java, handling over 10,000 daily transactions with 99.9% uptime.
- Integrated a secure payment gateway using Stripe API, processing $50K+ monthly transactions with zero security incidents.
- Leveraged AWS DynamoDB to store user preferences, ensuring efficient data retrieval and scalability.

Full Stack Developer   **September 2019 - November 2020**
Upwork   **Remote, India**

- Designed and developed a housing management application using React.js and JavaScript, focusing on creating responsive, cross-device user interfaces, resulting in improved operational service efficiency.
- Implemented server-side rendering with Next.js, achieving a 35% improvement in application load times and enhancing overall user experience through strategic performance optimizations.
- Accelerated service request processing by 15% through efficient backend services using Python, GraphQL, and MongoDB.

Application Developer   **August 2018 - September 2019**
Upwork   **Remote, India**

- Developed a geo-informative map app using React, Python, and PostgreSQL, enhancing navigation functionality.
- Improved scalability by 25% by utilizing Docker, Kubernetes, and Kafka for streamlined microservices deployment using AWS EBS.
- Integrated dynamic maps and real-time geospatial data, providing users with accurate information and route navigation by developing a robust backend using Python.

EDUCATION

University of North Texas   **Denton, TX**
Master of Science, Data Science - 3.9/4.0   ***2024***

TECHNICAL SKILLS

Programming Skills: Java, JavaScript(ES6), Python, Spring, Django, Flask, FastAPI, React, Node.js
Databases: MongoDB(NoSQL), Microsoft SQL server, Azure PostgreSQL, Neo4j, MongoDB, AWS DynamoDB
Tools and Software: Linux, Azure, Azure DevOps, Docker, GitHub, GIT, Jenkins, Postman, Swagger, Webpack, AWS