

Abhivarma Birru

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PROFESSIONAL SUMMARY

Software Engineer with 3+ 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, back-end development, machine learning and data science.

WORK EXPERIENCE

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

- Built a high-performance graph database analytics dashboard using React, TypeScript, Java and Azure Postgres, 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.
- Automated integration testing with JUnit and Jest using deployment CI/CD pipelines, 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 and Redux, reducing render times and improving overall application responsiveness.
- Designed a scalable front-end architecture using MVC design, improving code maintainability and development efficiency by 30%.
- Enhanced performance by 15% using Node.js and Webpack for reduced load times and minimal bundle size.
- Designed efficient database queries and indexing strategies, accelerating database transaction times by 30% for Postgres (AWS RDS).
- Engineered backend services handling RESTful and GraphQL web services using Java 17, Spring Boot, and Hibernate ORM, reducing API latency by 25%.
- Collaborated with global teams and conducted code reviews for centralized Git-based code repositories ensuring high code quality standards and feature releases by following agile methodologies.

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.
- Designed 80+ sales visualizations per semester with tableau, generating data-driven insights for designing optimal meal plans.

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

- Designed and developed a housing management application using React and TypeScript, creating responsive, cross-device user interfaces.
- Implemented server-side rendering with Next.js, accelerating application load times by 20%.
- 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% using Docker, Kubernetes, and Kafka for streamlined microservices deployment with AWS ECS.
- Integrated dynamic maps and real-time geospatial data, providing users with accurate information and route navigation.

EDUCATION

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

TECHNICAL SKILLS

Programming Skills: Java, JavaScript(ES6), TypeScript, Python, Spring, Django, Flask, FastAPI, React, Node.js

Databases: MongoDB, MySQL, Microsoft SQL server, PostgreSQL, Neo4j, MongoDB, AWS DynamoDB

Tools and Software: Linux, Azure, Docker, GitHub, GIT, Jenkins, Postman, Swagger, Webpack, AWS

Functional Skills: Data Structures, Algorithms, Database Management, Operating Systems(Linux, MacOS)