Jagadeesh Kesarapu

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WORK EXPERIENCE

Eficens Systems Inc, Charlotte, NC
Software Development Engineer — Client - TIAA — 01/2023 - Present
- Led design, development and implementation of a transactions management application using Java and Spring Boot, building a scalable microservices architecture with RESTful endpoints scaling to handle **10+ million events daily**.
- Optimized ETL processes with Java workflows and Quartz Scheduler, aggregating data from **15+ sources** and displaying it on Tableau and Digital Analytics dashboards for cross-functional teams.
- Resolved performance issues during **Hadoop to Snowflake migration**, addressing inefficiencies and removing faulty date-time records, leading to a **97% improvement** in query performance and faster data retrieval.
- Developed responsive front-end applications using React, TypeScript and Bootstrap, improving financial data visualization, **reducing page load times by 20%** and creating reusable components for seamless cross-browser compatibility
- Secured APIs using OpenID, OAuth 2.0, JWT and Spring Security, integrating Ping Federate for SSO and **improving API performance** with caching, query tuning and message queues.
- Deployed applications on AWS EC2, streamlining containerized deployments with Docker and automating CI/CD pipelines using CloudBees Jenkins, **reducing deployment times by 30%** and improving scalability.

Pristen IT Systems Inc, Houston, TX
Full Stack Java Developer — 07/2022 - 12/2022
- Engineered backend services in Java, using OOP and Java 8 features (Lambda, Stream API, multithreading) for efficient data processing and Hibernate with Spring Data JPA for streamlined database management.
- Enhanced ETL workflows and optimized database interactions with stored procedures, views, triggers and CTEs, reducing data processing times by 1 day and **improving data processing efficiency by 30%.**
- Developed automation scripts using Java and JDBC to resolve data mismatches, **reducing manual intervention by 50%** and improving data accuracy.
- Implemented automated test cases by following Test-Driven Development principles, **raising code coverage by 20%** using JUnit and Mockito tests.

Infosys Ltd, Chennai, India
Senior Systems Engineer — 09/2018 - 07/2021
- Launched **30+ RESTful APIs** using Java and Spring Boot, collaborating with stakeholders to optimize data exchange operations adhering to Agile methodologies for backend development.
- Restructured codebase to reduce average response times and **improve database performance by 25%** through query optimization and Spring Boot configuration refinements.
- Created real-time error tracking dashboards using React, TypeScript and Bootstrap, transforming unorganized logs into user-friendly visualizations, **reducing error identification time by 40%**.
- Led AWS deployments using EC2, S3, Elastic Beanstalk and Lambda, with DynamoDB for scalable processing, improving performance and scalability, **reducing costs by 15%**.

EDUCATION

University of Central Missouri, Lees Summit, MO
M.S. in Computer Science — 12/2022, GPA - 3.9/4.0

Vellore Institute of Technology, Vellore, India
B.Tech. in Electronics and Communication Engineering — 05/2018, GPA - 7.9/10

SKILLS

Languages/Databases: Java, Python, JavaScript, TypeScript, MySQL, Oracle, MongoDB, PostgreSQL
Technologies/Frameworks: Spring Boot, Spring MVC, RESTful APIs, Microservices, Hibernate, React, Node.js, Redux, AWS, OpenShift
DevOps/Tools: Docker, Kubernetes, Jenkins, Kafka, Git, Postman, SonarQube, Tomcat, Maven, Gradle, JFrog, Swagger, CyberArk, Splunk
Other Skills: Data Structures and Algorithms, Object-Oriented Design and Principles, Data Analysis, Agile Methodologies

PROJECTS

AWS Serverless Web Application — HTML, CSS, Amplify, API Gateway, DynamoDB, Lambda
- Built a serverless web application for user registration, authentication and ride request management using Amazon S3, Cognito, API Gateway, Lambda and DynamoDB for backend processing and data storage. Achieved **99.9% uptime** and reduced **latency** by **50%** for user authentication and backend processing, supporting **up to 1,000 concurrent users**.