Abinesh R.

SOFTWARE ENGINEER (JAVA)

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Executive Summary

SOFTWARE ENGINEER

Accomplished Software Engineer with extensive expertise in Java and proven experience in designing and implementing real-time applications using Spring and Spring Boot. Skilled in microservices architecture and well-versed in system design and core design principles. Adept at delivering high-quality, scalable, and innovative solutions while continuously refining technical skills to stay aligned with industry standards and best practices.

Skills

PROGRAMMING LANGUAGES
- Java, Python, HTML, CSS, JavaScript, SQL, NoSQL.
- Data modeling tools: JSON, YAML, XML.

FRAMEWORKS
- Spring, Spring Boot, Spring Security, Spring GraphQL, Spring Cloud, Spring Shell.
- Servlets, JSP, J2EE
- Spring MVC, Thymeleaf, JTE.
- JUnit, Mockito

CLOUD
- AWS: EC2, S3, Route53.

DATABASE TOOLS
- SQL: PostgreSQL, MySQL, MariaDB.
- NoSQL: MongoDB, Redis.

FOUNDATIONS
- Java: Java 8, Java 11, Multithreading, Virtual Threads, Collection Framework, Stream API, Functional Programming.
- Linux: Debian, Arch, CentOS, Ubuntu.
- API Development: RESTful, GraphQL, Microservices, API Design.
- Docker, Kubernetes.
- Version Control System(VCS): Git, Github.
- System Design, Design Principles
- Build Tools: Maven, Gradle

Work Experience

Software Engineer *Tamil Nadu, India*
FREELANCE *Feb. 2024 - Present*
- Built an application for managing every transaction, including sales, customer data, inventory, stock levels, and deliverables, with a user- friendly interface.
- Implemented role-based authentication and authorization to control access to resources.
- Transitioned the client's operations from paper-based processes to a digital platform, drastically improving efficiency.
- Enabled the client to better manage time and significantly boost sales.

Education

Ramakrishna Mission Vivekananda College *Tamil Nadu, Chennai*
B.S. IN COMPUTER SCIENCE *2021 - 2024*
CGPA: 7.3

Government Higher Secondary School

Higher Secondary Certification

Percentage: 77.5

Projects

Inventory Management System

Java, Spring, Spring Boot, MongoDB

- Developed scalable backend services using Java and Spring Boot to enhance application performance.
- Designed and implemented a high-performance MongoDB architecture, enabling efficient storage and retrieval of over 500,000 data entries, leading to a 40% reduction in latency for data access across applications.
- Implemented secure user authentication and authorization with Spring Security, ensuring compliance with industry standards.
- Deployed applications on AWS, utilizing services such as EC2 and S3 to optimize cloud infrastructure.

Video Streaming Application

Java, Spring, Spring Boot, MySQL, HTML, CSS, JavaScript, Zipkin

- Developed scalable microservices architecture using Java and Spring Boot frameworks that streamlined inter-service communication, ultimately reducing average response times from over two seconds to less than half a second.
- Implemented API Gateway for routing requests and managing load balancing between services.
- Designed and deployed Service Registry for dynamic service discovery and smooth inter-service communication.
- Utilized Zipkin for distributed tracing, improving monitoring and performance analysis of services.

Image Text Extraction

Java, Spring, Spring boot, Thymeleaf, Html, Css

- Developed a project leveraging OCR technology to extract and analyze text from images, streamlining data entry and document processing workflows.
- Utilized Tesseract OCR library for efficient image preprocessing and accurate text parsing, improving data extraction accuracy by 20%.
- Implemented front-end components using Thymeleaf, HTML, and CSS to provide a seamless user interface for image upload and text analysis.

Languages

Tamil [Native]

- Fluent in writing and reading documents.
- Fluent in oral.

English

- Fluent in writing and reading documents.
- Average in oral.

Projects