

BHARATH CHAVALA
SOFTWARE ENGINEER

bharathchavala417@gmail.com | +1 417-351-7352 | [GitHub](#) | Missouri, MO 65804

SUMMARY

- Over 2+ year of Software Engineer experience in all phases of the Software Development Life Cycle (SDLC) which includes Design, Development and Implementation of web-based, enterprise business applications using the JAVA/J2EE technologies.
- Proficient in Spring frameworks (Spring MVC, Spring IOC, Spring REST, Spring AOP, Spring Boot) with hands-on experience in Spring Data JPA, ORM frameworks for relational databases (MySQL, PostgreSQL, Oracle), and NoSQL databases like Redis, Cassandra, and MongoDB.
- Skilled in microservice architecture, including service registry, config server, circuit breaker dashboard, and Spring Cloud Sleuth.
- Proven ability to design, deploy, and manage cloud infrastructure on AWS and Azure, utilizing AWS services like EC2, Load Balancers, S3, RDS, SQS, SNS, IAM, CDN, Lambda, and CloudWatch, along with expertise in Jenkins CI/CD pipelines, Docker, and Kubernetes.

EDUCATION

Master of Science (MS) in Computer Science

Missouri State University, Missouri, MO

Aug 2022 – May 2024

Bachelor of Technology(B-Tech) in Mechanical Engineering

Gandhi Institute of Technology and Management, Andhra Pradesh, India

Aug 2016 – June 2020

TECHNICAL SKILLS

Methodologies	: SDLC, Agile, Waterfall
Languages	: Java, SQL, HTML, CSS, JavaScript, C++, Python
Frameworks/Libraries	: Spring Boot, Spring MVC, Spring Data JPA, Spring Security, Hibernate, Junit, Swagger, SLF4J, Log4J, ReactJS
Cloud and Infrastructure	: AWS (EC2, Load Balancer, Route 53, S3, SQS, SNS, VPC Peering, EFS, EBS, CDN, Lambda), Docker, Kubernetes
Version Control and Tools	: SVN, Git, Bitbucket, Jenkins, Tomcat, IntelliJ, Visual Basic, Postman, Spring Tool Suite (STS), Eclipse
Database	: MySQL, PostgreSQL, MongoDB, Oracle, Cassandra, DynamoDB, Aurora, Redis, Elasticsearch
Architecture/Messaging Queue	: RESTful, Microservices, REST API, JSON, SOAP, Containerization, Rabbit MQ, Kafka, GraphQL
Monitoring Tools	: Grafana, CloudWatch, Azure Monitor, Dynatrace, ELK Stack, Splunk
Operating Systems	: Windows, Linux, ubuntu, MacOS

WORK EXPERIENCE

Tata Consultancy Services, India | Software Engineer

Dec 2021–Sep 2022

- Led cross-functional teams through the analysis, design, implementation, and testing of multiple software projects within an Agile methodology framework, resulting in a 30% decrease in development time and a 25% increase in customer satisfaction ratings.
- Utilized React JS, jQuery, AngularJS, TypeScript, HTML5, CSS3, along with popular front-end frameworks and tools such as Bootstrap, Redux, and Webpack, to develop dynamic and user-friendly features, resulting in a 40% increase in overall website performance.
- Designed and executed a comprehensive system upgrade using Spring Boot, Spring MVC, Spring Data JPA, Spring Cloud, Spring Security, Hibernate, Apache Kafka, and Thymeleaf frameworks, resulting in a 30% increase in system reliability metrics.
- Developed a Spring Boot application integrated with GitHub and Jenkins for CI/CD, containerized with Docker, and deployed on AWS EKS using Kubernetes for scalability. Utilized AWS services like EC2, S3, EFS, EBS, and Lambda to build a robust, scalable infrastructure.
- Integrated a Spring Boot application with CloudWatch, Dynatrace, ELK Stack, and Splunk for comprehensive monitoring, improving system observability by 35% and reducing incident response time by 40% through real-time metrics and proactive alerting.
- Enhanced Spring Boot application performance by 50% through Redis caching, and improved data scalability and response times by 40% using NoSQL databases MongoDB and Cassandra, optimizing data retrieval and reducing latency in high-traffic scenarios.
- Collaborated with designers, QA testers, and DevOps team members to streamline the software development life cycle (SDLC), resulting in a 15% decrease in time-to-market for new product releases.

Aadyam Solutions, India | Associate Software Engineer

June 2020–Nov 2021

- Designed and developed a responsive single-page application using React.js, HTML5, and CSS3, enhancing the UI for a large-scale enterprise solution. Implemented RESTful APIs with Java and Spring Boot, utilizing Swagger and Postman for documentation and testing.
- Developed and maintained a microservices architecture using API Gateway for routing, Eureka for service discovery, Config Server for configuration management, Spring Cloud Sleuth for tracing, and Circuit Breaker Dashboard for monitoring resilience and fault tolerance.
- Implemented TDD and BDD practices in Spring Boot applications using JUnit, Selenium, and SonarQube, increasing test coverage by 35%, improving code quality by 25%, and reducing production bugs by 40%, ensuring greater application stability.
- Optimized SQL queries in MySQL, PostgreSQL, and Oracle, improving performance by 30%. Implemented schema design, reducing redundancy by 20%, and developed PL/pgSQL procedures, boosting execution speed by 25%.
- Integrated a Spring Boot application with CloudWatch, Dynatrace, ELK Stack, and Splunk for comprehensive monitoring, improving system observability by 35% and reducing incident response time by 40% through real-time metrics and proactive alerting.
- Engineered and deployed a Spring Boot application with GitHub and Jenkins for CI/CD, leveraging Docker for containerization and Azure Kubernetes Service (AKS) for scaling, reducing deployment time by 40%. Utilized Azure Virtual Machines, Blob Storage, Managed Disks, and Azure Functions to improve infrastructure reliability by 30% and optimize storage costs by 20%.

RELATED COURSE PROJECTS

Ecommerce –MSU Springfield ([View Code](#))

Jan 2024 - April 2024

- Architected and implemented a scalable microservice-based e-commerce backend using Spring Boot, integrating Eureka for service discovery and Kafka/RabbitMQ for asynchronous communication.
- Leveraged ELK Stack and Zipkin for centralized logging, monitoring, and distributed tracing, enhancing system observability and issue resolution.