K Harshavardhan Reddy
FullStack Developer

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SUMMARY

Dynamic and results-driven Java Full Stack Developer with **over 6 years** of comprehensive experience in **designing, developing, and deploying robust applications**. Proficient in **core Java and JavaScript**, with advanced expertise in front-end frameworks such as **React and Angular**. Skilled in leveraging **AWS and GCP** cloud services to enhance application performance and scalability. Proven ability to implement end-to-end solutions, utilizing **RESTful APIs and microservices architecture**. Adept at collaborating with cross-functional teams to deliver high-quality software in **Agile environments.**

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TECHNICAL SKILLS

Programing Languages: Java, JavaScript, C#, Python.
Java Technologies: Spring Boot, Spring MVC, Hibernate, Servlets, JDBC, JSP.
JavaScript Technologies: React, Redux, Angular, NodeJS, jQuery.
Web Technologies: HTML, XML, CSS, JavaScript, JSON, jQuery, AJAX, Bootstrap.
Databases: Oracle PL/SQL, MySQL, Mongo-DB, Cassandra.z
Build Tools & Devops Tools: Jenkins, Maven, Gradle, Docker, Kubernetes.
Development Tools: Eclipse, Visual Studio, IntelliJ Idea, Android Studio, Spring Tool Suite, Fitbit Studio.

Other Skills: Apache Hadoop, Spark, Hive, Kafka, Oozie, Teradata, Amazon Web Services, GCP..

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PROFESSIONAL EXPERIENCE

Ascension Technologies
Java Full Stack Developer   **Mar 2024 - Present**

- Involved in analysis, design, development and testing phases of Software Development Life Cycle (SDLC) using Agile methodology.
- Collaborated with the product team to gather and refine requirements for specific tasks, ensuring alignment with existing tools and solutions within the product ecosystem.
- Developed SPA using ReactJS to utilize the HTML5 DOM features and leveraging its ability to efficiently update and render elements in the webpage.
- Implemented various screens for the front end using ReactJS and used various predefined components from NPM.
- Developed and maintained complex software components / systems in compliance with department standards including JSP, JSTL, EJB, JMS, JAX-WS, Restful APIs and Java Mail.
- Developed and deployed Micro services based applications using Spring Boot and Spring Cloud.
- Developed Rest services using JSON for storing and exchanging information between browsers and servers.
- Integrated web services using Apache Camel routing and Spring, with functionality implemented using Spring IoC, Spring Boot, microservices architecture, and Hibernate ORM.
- Designed microservices to fetch data from a legacy system and upload it to multiple Couchbase buckets using the Couchbase SDK (Java client).
- Optimized application performance by implementing caching mechanisms using Redis, improving response times and reducing database load for frequently accessed data.
- Designed JUnit test cases for various services to assert the final message integrity as a part of Dev testing.
- Configured AWS EC2 instances, S3 Buckets and Cloud Formation Services based on the business requirements.
- Designed, built, and deployed a variety of applications leveraging a wide range of AWS services (including EC2, S3, DynamoDB, SQS, and EMR), with a focus on high availability, fault tolerance, and auto-scaling.
- Used JWT token bearer authentication for REST services.
- Developed backend services to fetch data from Oracle 12c using JDBC templates.
- Designed and developed necessary PL/SQL for the database operations as needed.
- Deployed MicroServices, Docker container using Amazon EC2 container services and using AWS admin console.
- Implemented a Continuous Delivery pipeline with Docker, Jenkins and GitHub and AWS AMI'S.
- Developed CI/CD system with Jenkins on Kubernetes container environment utilizing Kubernetes.
- Monitored, logged, and maintained application health and performance using AWS CloudWatch, Prometheus, and Grafana, ensuring seamless operation in production environments.

UHG - Optum
Java Full Stack Developer   **Jul 2022 - Mar 2024**

- Used AGILE methodology and actively participated in Scrum meetings to produce quality deliverables within time constraints.
- Developed UI pages using HTML5, Angular, Bootstrap, CSS3, JavaScript, jQuery, and AJAX.
- Developed asynchronous service calls in Angular with TypeScript and transmitted data in JSON format between back-end and front-end applications.
- Used Angular features such as data binding, routing, custom filters, and custom directives.
- Involved in developing a role-based Angular navigation menu, where menu items dynamically change based on values derived from the database in JSON format.
- Automated Angular application modules using Protractor and Jasmine, and created specs for various functional scenarios.
- Designed and developed XSLT transformation components to convert data from XML to HTML.
- Used SOAP protocol, JAX-WS, and Apache CXF for the development of web services.
- Used HibernateTemplate in the data access layer to access and update information in the database.
- Developed web services to allow communication between applications through REST.
- Extensively used Spring IoC, configured application context files, and performed database object mapping using Hibernate annotations.
- Developed microservices with Spring Boot, interacting through a combination of REST and Apache Kafka message brokers.
- Worked on performance tuning of Cassandra clusters.
- Deployed Spring Boot-based microservices and Docker containers using Amazon EC2 container services and AWS.
- Integrated automation scripts (Selenium WebDriver API) with Continuous Integration tools like Jenkins for nightly batch runs of scripts. Created project plans on Jenkins and configured scheduling using Cron jobs.
- Used Log4j for logging various levels of information, such as error, info, and debug logs.
- Wrote unit tests using JUnit, resolved bugs and other defects using Firebug and JIRA.
- Involved in unit testing, integration testing, bug fixing, acceptance testing with test cases, and code reviews.

Northern Arizona University   **Jan 2022 – May 2022**
Louie Bot (Student Worker)   **Flagstaff, AZ**

- Created a voice assistant and speech recognition robot to address queries related to university policies, campus directions, HR inquiries, and to perform basic tasks.
- Mentored three interns during the Summer 2022 program, guiding them in the development of the Speech Louie Robot and neural network-based machine learning projects.

Tech Mahindra   **Mar 2018 – Jul 2021**
Software Engineer   **Hyderabad, India**

- Designed, developed, and tested an enterprise-level Java application, utilizing core Java with extensive use of multithreading and collections. Implemented the MVC architecture with Spring to facilitate data exchange between the front-end and business layers.
- Developed RESTful web services to enable communication between applications.
- Leveraged Spring AOP for transaction management across objects in Spring-based applications.
- Built microservices using Spring Boot, with communication facilitated through REST and Kafka message brokers.
- Utilized Maven for build automation and deployment to Tomcat, and monitored logs using Splunk.
- Worked on Shell scripting to automate the build and release processes.

EDUCATION

Master of Science – Computer Science   **Aug2021 – Dec 2022**
Northern Arizona University, AZ.   GPA **4/4**
- Majors: Large Scale Data Structures, Software Assurance, Advanced Intelligent Systems, Software Methodologies,Software Development and Engineering, Data Processing at Scale.

Bachelor of Technology in Electronics and Communication Engineering   **Sep 2013 – May2017**
BVRIT - Jawaharlal Nehru Technological University Hyderabad, India.   GPA **9/10**
- Majors: Data Structures and Algorithms, Theory of Computation, Computer Networks, High performance Computing.