SAI REDDY

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Highly skilled Software Engineer with over 3 years of experience, proficient in HTML, CSS, React, Angular, Java, Spring Boot, and AWS. With a proven track record of delivering innovative solutions across diverse tech environments, I specialize in full-stack development, from architecting microservices solutions to enhancing user interfaces. AWS Certified Developer – Associate, adept at optimizing performance and driving efficiency.

TECHNICAL SKILLS

Languages:	Java, Python, JavaScript, Type Script, C, C#, C++
Web Development:	HTML, CSS, JSON, Node.js, REACT JS, Angular JS, Spring Boot, REST API, Bootstrap, Tailwind, Figma
Database Technologies:	MySQL, SQL Server, MongoDB, DynamoDB, Entity Framework
Distributed Technologies:	Kafka, Prometheus, Producer-consumer pattern, Microservices
Cloud:	Amazon Web Services, AZURE
DevOps:	Jenkins, Git, GitHub, Jira, GitHub Actions, Docker, Kubernetes

WORK EXPERIENCE

Mackinac Hall (MAK), GVSULB   Nov 2022 - May 2024
Software Engineer (GSA)

- Implemented Single Sign-On (SSO) based **OAuth2 JWT** authentication and maintained the session state information throughout the application and third-party software.
- Transitioned existing **RESTful APIs** to **GraphQL** for interactive web-based solutions, streamlining data access, reducing payload sizes, and improving performance for a more responsive user experience.
- Enhanced microservices architecture by skillfully utilizing **Express.js, and ES6**, creating efficient interfaces that facilitated smooth interactions with **MongoDB**, ensuring robust data management.
- Reduced code complexity by 10% using **Java** and experienced in using **Java 8** features like **lambdas, streams, and functional** interfaces to write clean, concise, and maintainable code.
- Worked on Spring modules like **Spring core, Spring MVC, Spring Boot and used Spring Mongo Template** to integrate **Spring Framework** with **MongoDB**.
- Designed and implemented real-time data pipelines using **Kafka** for streaming high-volume sensor data, enabling near real-time analytics.
- Responsible for designing workflow for a Load Balancing micro service and integrating with **Spring boot application** to perform cloud orchestration using **Kubernetes** and manage cloud resources.

Mindtree Limited   Jan 2021 - Aug 2022
Senior Software Engineer

- Built different **REST APIs** for RESTful services using **JavaScript**, and other node modules to serve the web application.
- Built interactive **React JS** applications, leveraging **Tailwind CSS** media queries. Expertise in creating reusable components, complex forms, and engaging animations.
- Demonstrated expertise in **Java Enterprise Edition (Java EE)** and developed Java EE applications using technologies such as **Servlets**, **JSP**, **EJB**, and **JPA**.
- Understood the subscription-based pricing model associated with **SaaS applications** and designed solutions with scalability and cost efficiency in mind.
- Skilled in database access and manipulation using **JDBC** and **ORM** frameworks like Hibernate and JPA, ensuring efficient data storage and retrieval.
- Used **AWS RDS** service for deployment and management of **MySQL** for efficient and scalable data storage.
- Developed **Docker** containers and migrated On-premises virtual machines to **AWS EC2, Elastic Beanstalk, Elastic Container** Service based on the application needs and implemented **AWS IAM** key rotation using AWS Secrets Manager.
- Developed custom **Jenkins** jobs/pipelines that contained bash shell scripts utilizing the **AWS CLI** to automate infrastructure provisioning.
- Actively participated in **Agile SDLC ceremonies** and sprint planning meetings to ensure project milestones were met.

- Implemented a **secure** and **high-performance code** by reducing code vulnerabilities by 15% and increased feature performance by 10% through strategic implementation in a **Linux** environment, resulting in enhanced user satisfaction and productivity.
- Migrated client's platform from a **modular monolithic architecture to a Spring Boot microservices solution**, reducing sluggish responsiveness, boosting user experience and platform performance by 20%.
- Developed and maintained automated UI tests using **Selenium WebDriver**, increasing test coverage by 20% and reducing manual testing time by 30%.
- Designed and implemented data pipelines to ingest and index data from various sources like databases, flat files, APIs into **Elasticsearch**.

EDUCATION

M.S, Computer Science   Grand Valley State University   GPA: 3.6   May 2024
Coursework: Cloud Application Development, Information Visualization, System Analysis and design, User Interface Design ,Adv Software Engineering, Adv Computer Architecture, Principles of Database Design, Distributed Systems, Database Management Systems, Computer Networking, Info Management and Science.

B.Tech, Electronics and Communication Engineering   R.V.R & J.C College of Engineering, India   GPA: 3.5   June 2022
Coursework: Data Structures and Algorithms, Object Oriented Programming, Operating systems , AI Tools, Techniques and Applications, Design and Analysis of Algorithm, Computer Networks Concepts and Protocol, Graphical System Design, Microprocessor & Microcontroller, Internet of Things.

CERTIFICATIONS

- **AWS Certified Cloud Practitioner-** Associate from Amazon Web Services (AWS)
- **AWS Certified Developer** – Associate from Amazon Web Services (AWS)