MADA UPENDRA

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SUMMARY

Experienced full-stack developer with over 4 years of hands-on experience in Java, Python, JavaScript, React, Node.js, Spring Boot, Hibernate, REST APIs, and both SQL and NoSQL databases. Skilled in developing scalable and reliable web applications, deploying cloudbased microservices on AWS and GCP, and optimizing performance. Proficient in project management tools such as Docker, Kubernetes, Splunk, and JIRA. Passionate about delivering high-quality software using Agile Scrum methodology and SDLC.

EDUCATION

University Of central Missouri   warrensburg, Missouri
Master of Science in Computer Science GPA 3.5   *Aug. 2023 – May 2025*

EXPERIENCE

Deloitte   Aug 2024 – Present
Software Developer   *Kansas, USA*
- Developed and deployed cloud-based microservices using Spring Boot and Kubernetes on AWS, boosting system capacity by 50% (from 500 to 750 concurrent users) and cutting response times by 40% (from 300ms to 180ms).
- Implemented multi-factor authentication and encryption protocols within Spring Boot applications, reducing security incidents from 20 to 8 per quarter (60%), tracked by Splunk.
- Deployed RabbitMQ and Kafka for asynchronous communication in Spring Boot microservices, increasing message throughput by 60% and reducing downtime by 40%, as measured by system performance metrics.
- Optimized Kubernetes resource allocation for Spring Boot microservices on AWS, cutting infrastructure costs by 20% on a 50-node cluster through improved containerization and auto-scaling.

Cognizant   Oct 2021 – July 2023
Software Developer   *Chennai, India*
- Crafted and implemented RESTful APIs with Java Spring Boot to manage over 1 million concurrent users efficiently and with minimal latency, ensuring robustness through JUnit, Mockito, integration testing,and performance testing.
- Created and built web pages using ReactJS, Redux, and Axios, implementing responsive and interactive user interfaces with React Hooks and CSS frameworks such as Bootstrap and Material-UI.
- Leveraged AWS services (S3, SQS, Lambda) to build scalable cloud-native applications, contributing to a 60% increase in customer base growth, the impact was measured by tracking user acquisition rates and application performance metrics.
- Implemented Jenkins CI/CD pipelines for automated deployments, improving build and test speed by 55% and enhancing overall software reliability, as evidenced by reduced deployment times and fewer production issues.
- Integrated Docker-based containerization with Kubernetes to automate the deployment, scaling, and management of applications, achieving a 40% improvement in scalability and significant reduction in infrastructure costs.
- Leveraged Agile methodologies and JIRA for issue tracking, facilitating the timely delivery of high-quality software.

Infosys   may 2020 – Sept 2021
Software Developer   *Chennai, India*
- Achieved an eightfold increase in supported throughput by leveraging an event-driven architecture, asynchronous I/O, multi-threaded operations, and Redis caching to enhance performance and scalability
- Implemented multi-threading in the SMS module, increasing processing speed and reducing customer complaints.
- Deployed MongoDB for effective data storage and retrieval, adhering to the MVC architecture to ensure clean and maintainable code.
- Performed automated unit testing using the Appium, Cucumber, achieving an impressive test coverage to ensure high (QA).

PROJECTS

Route Optimization using LLMs   Aug 2024 – Oct 2024
Python, Data Engineering, Prompt Engineering, APIs, Language Models, Python, HTML, CSS, JS, Flask
- Created a comprehensive route analysis application integrating Language Model Algorithms (LLMs) and diverse APIs (Weather, Crime, Traffic). Spearheaded backend development in Python and frontend interfaces in JavaScript, HTML, and CSS. Utilized agile methodologies, fostering collaboration for seamless integration and user-centric outcomes.

SKILLS

- **Programming Language:** Java, Python, C++, JavaScript,TypeScript,SQL,CSS, HTML

- **Frameworks/Tools:** Spring Boot, Microservices, RESTful APIs,spring core,j2EE,spring security,spring reactive, Hibernate, JPA, React, Angular, Node.js, Kafka, RabbitMQ, Redis, GraphQL, Swagger Hub, Git, Jenkins, Terraform, CI/CD Pipelines, JUnit, TestNG, Mockito, Selenium,NOSQL Cucumber, SonarQube, OAuth 2.0, JWT, Role-Based Access Control (RBAC), Agile, Scrum, Jira, Confluence,SOAP,JSON,XML

- **Platforms:** Linux, Windows, GCP, Kubernetes, Docker, AWS (EC2, ECS, ECR, IAM, S3, RDS, Lambda, API Gateway, CloudFormation), Microsoft Azure, Splunk, Dynatrace