Pavan Swaroop Lebakula

Software Engineer
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Summary

Software Engineer with 3+ years of experience in Java, Rest API, and Spring Boot, proficient in Object-Oriented Programming, CI/CD processes, and SQL. Leadership expertise in problem-solving, driving technical solutions, having led teams of up to 5 members, collaborating cross-functionally to achieve organizational goals, and building scalable solutions in an Agile environment. Open-minded and passionate about learning new technologies, with a willingness to leverage them to their optimal potential.

Technical Skills

Programming: Java, Python, C, Typescript
Development Technologies: Rest API, Spring Boot, Hibernate, JSON, XML, Microservices, Angular, HTML5, CSS
Messaging Technologies: Apache Kafka, JMS, RabbitMQ
Databases: PostgreSQL, MySQL, Elasticsearch, DynamoDB
Testing Frameworks & Tools: JUnit, Mockito, Postman, Swagger
Build & Deployment Tools: Jenkins, Docker, Kubernetes, Git, ArgoCD, Maven, SonarQube, Tomcat
Software Practices & Tools: Agile, Scrum, Test Driven Development (TDD), Cross-functionality, SDLC, JIRA
Certifications: AWS Certified Developer Associate

Professional Experience

Cognizant Technology Solutions   **June 2019 – July 2022**
Software Engineer – Bengaluru, India   July 2020 – July 2022

- Collaborated with a cross-functional team of 10 in the development of **Caterpillar Inc.'s "Minestar Customization and Integration"** product, enhancing autonomous machine management efficiency.
- Developed and maintained over **70 requirements in Java**, employing Test Driven Development (**TDD**) with JUnit and Mockito throughout the Software Development Life Cycle (SDLC).
- Led the implementation of Apache **Kafka** to process over **300+ events per second** from autonomous vehicles, crucial for the "MayDay Alarm" feature.
- Achieved a 30% improvement in customer engagement by developing **REST API**s using **Spring Boot**, optimizing the data processing speed of autonomous vehicles by **multi threaded programming**.
- Enhanced application security by implementing **OAuth 2.0** for robust user authentication and authorization, ensuring secure access to critical features and resources.
- Implemented **Jenkins CI/CD** with SonarQube and Groovy scripting, significantly improving code quality and deployment efficiency by 40%.
- **Led a team of 5 developers**, leading them to a successful product release, representing the team in project demos to Business Analysts, and conducting Knowledge Transfer sessions for 5 junior developers.
- **Environment:** Java, Spring Boot, Apache Kafka, JUnit, Mockito, OAuth 2.0, Jenkins, SonarQube, Groovy, CI/CD, TDD, SDLC, REST APIs.

Jr. Software Engineer – Hyderabad, India   June 2019 – June 2020
  - Customized pipeline scripts to automate the building and testing of **Docker** images, enabling seamless pushing to a Docker registry and deployment to the testing environment, improving deployment efficiency by 20%.
  - Optimized search functionality within a web application using **Elasticsearch**, resulting in a 25% increase in search throughput and allowing users to swiftly access relevant information.
  - Contributed to a 15% improvement in **service scaling** by actively participating in the development of REST-based **Microservices**, enhancing system performance and reliability.
  - Developed TypeScript **UI** reusable components and services to consume and visualize **20+ HTTP calls** for REST APIs, streamlining view routing and enhancing navigation in the **Angular** application.
  - **Environment:** Docker, Elasticsearch, REST APIs, Microservices, TypeScript, Angular, Continuous Integration/ Continuous Deployment (CI/CD).

Education

Master of Science in Computer Science   **Aug 2022 – May 2024**
University of Central Florida – Orlando, Florida
Related Coursework: Design Analysis and Algorithms, Computer Architecture, Software Security, Computer Forensics.

Projects

Cloud-native CI/CD Pipeline
Git, Jenkins, Docker, Kubernetes, Containerization, Maven, AWS EC2
  - Developed a robust CI/CD pipeline for a Spring Boot application using Jenkins, Docker, SonarQube, Docker Hub, Kubernetes, and Argo CD, ensuring exceptional code quality and automation efficiency. Jenkins, Docker, and SonarQube are hosted on AWS EC2 instances. [Project Link](#)

Vehicle Reservation System (E-Commerce)
Angular, JWT, MySQL, Hibernate
  - Built a web application utilizing Angular, bolstered by Spring Boot. Mastered both monolithic and microservices backends using Java, MySQL, and Hibernate, utilized JSON Web Tokens (JWT) to ensure security, and ensured comprehensive testing coverage using Unit tests and Mocking framework. [Project Link](#)

Serverless Event-Driven Web App
AWS Lambda, S3, SQS, API Gateway, DynamoDB
  - Engineered a serverless processing system using AWS Lambda, SQS, API Gateway, and NoSQL database service DynamoDB, enabling scalable and cost-effective web application development without servers. The system includes a static website hosted on S3, form submission triggers Lambda functions to process and store data in SQS and DynamoDB.

Leadership & Recognitions

  - Received **Client appreciation** while working at Cognizant for successfully developing features and giving **on-call** assistance for **critical bug resolution** before a product release.
  - Designed and conducted **Java coding sessions** as a **Teaching Assistant** for a class of 50 students, resulting in a 20% increase in the average grade of the class.
  - Worked as a **volunteer** in **Cognizant Outreach** activities, as part of it, conducted soft skill & Interview **preparation guidance** for students from remote areas.