Karthik Siva

Software Engineer

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EXPERIENCE

FIDELITY INVESTMENTS | Software Engineer Oct 2023 – Oct 2024 | Chennai, TN

→ **Backend Development:** Developed and maintained scalable backend services using Node.js and TypeScript, optimizing system performance by 20 %. Built efficient, reusable features and components to enhance scalability and functionality. Created robust APIs with Spring Boot, ensuring seamless integration and data flow across services.

→ **CI/CD Pipelines:** Deployed applications using CI/CD pipelines with **custom Jenkins pipeline stages**, ensuring seamless integration. **Merges** were executed through **GitHub**, followed by deployment across **DEV, QA, and PROD environments**. Managed the transition of environments from passive to active states, ensuring minimal downtime and maintaining application stability with **rollback strategies**.

→ **Software Design & Architecture:** Contributed to software design and architecture discussions, advocating for scalable, maintainable solutions that aligned with business goals and technical requirements.

GAVS TECHNOLOGIES | Software Engineer - 1 Jan 2025 – present | Chennai, TN

→ **Backend Development:** Upgraded Spring Boot applications to the latest stable versions, resolved deprecated methods and dependencies, and implemented comprehensive unit and integration test cases covering all possible scenarios to ensure application stability.

→ **Developed and tested robust, scalable, and maintainable** code for backend services, ensuring code reliability, bug-free execution, and full test coverage across various edge cases and use-case scenarios.

→ **Designed and developed serverless AWS Lambda functions** using the Serverless Framework with cron-based triggers, optimizing backend automation and ensuring reliable scheduling of background tasks.

→ **Performed load testing and performance tuning on microservices** to assess scalability under high-traffic conditions using AWS tools, ensuring systems meet SLAs and handle peak loads efficiently.

PROJECT

SMART DATA STORAGE SYSTEM | JAVA, ANGULAR, NODE JS, SPRING BOOT, AWS

→ Worked on Spring Boot to create RESTful APIs to capture and process customer requests, Utilized AWS for secure and scalable data storage.

→ Used Node.js to develop middleware and routing logic for integrating Spring Boot APIs with Angular services, ensuring efficient exception handling, status code management, and seamless data flow.

→ Designed and implemented dynamic forms, interactive pages, and user-friendly interfaces to improve workflow efficiency. Added features to create tables in AWS resources and streamline data processing, enhancing overall usability and reducing unnecessary data consumption.

→ This project ensures seamless integration between the front-end, middleware, and back-end services, providing robust application functionality. It significantly enhanced system scalability, improved user satisfaction, and optimized operational efficiency. By minimizing redundant data storage and optimizing resource allocation, it also contributed to cost savings and improved overall system performance.

SKILLS

Programming: Java, HTML, CSS, JavaScript
Frameworks: Angular, Node.js, Spring Boot
API Testing Tools: Postman, Insomnia
SCM: GitHub, BitBucket
Version Control: Git
Database: MySQL, PostgreSQL, PgAdmin
Cloud: AWS, Azure
CI/CD: Jenkins
Containers: Docker

EDUCATION

RAJALAKSHMI ENGINEERING COLLEGE
BE ECE 2018 - 2022 | CHENNAI, TN
CGPA: 7.89

COURSES AND CERTIFICATIONS

JAVA

Certified in Java with expertise in object-oriented programming, data structures, and algorithm development. Gained hands-on experience in building scalable applications and showcasing skills in development and debugging through project assignments.

WEB DEVELOPMENT

Completed a certification in web development with hands-on experience in building responsive applications using Angular, Node.js, HTML, CSS, and TypeScript. Demonstrated proficiency in front-end and back-end development, API integration, and scalable solution design.