Raghavender Reddy

Backend Developer Portfolio : Raghavender

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SUMMARY

Experienced Backend Developer with a strong background in Java, Python, Node.js, and Spring Boot, focusing on designing scalable architectures and cloud-based solutions. Skilled in leveraging AWS services, microservices architecture, and databases such as PostgreSQL, MongoDB, and Redis to optimize performance. At Fidelity Investments, implemented high-performance systems, reduced infrastructure costs using serverless technologies, and enhanced system reliability. At IBM, contributed to anomaly detection projects, developed efficient REST APIs, and streamlined distributed system installations. Holds a master's degree in computer science and multiple certifications in AWS and .NET technologies.

TECHNICAL SKILLS

- **Programming Languages:** Java, C, C++, Python,C# , Dot Net
- **Backend Development:** Node.js, Spring, Spring Boot, Camel, JPA/Hibernate, JDBC, JMS, Kafka, NoSQL,SQL,
- **Frontend Development:** ReactJS, Angular, JavaScript/TypeScript, HTML/CSS, Bootstrap, JQuery, Ajax,MVC
- **API Design & Development:** RESTful APIs, GraphQL, SOAP, Microservices Architecture, JAX-RS, WSDL,JSON
- **Testing**: Unit, Integration, and Functional Testing, Selenium, Cucumber, JUnit
- **Cloud & DevOps:** AWS, Azure, ECS, Kubernetes, Docker, AWS Lambda, CI/CD practices (Jenkins, SonarQube)
- **Additional Skills:** Splunk, Datadog, Object-Oriented Programming, Agile development methodologies
- **Frameworks and Libraries:** Struts 1.x/2.0, JSF, Django
- **Application Servers:** Apache Tomcat, IBM WebSphere, BEA WebLogic, JBoss, GlassFish
- **Cloud Services:** Amazon EC2, Amazon S3, Amazon RDS, AWS CloudWatch, Amazon EBS, Amazon CloudFront
- **Development Tools:** Eclipse, IntelliJ IDEA
- **Version Control and Collaboration Tools:** Git, SVN, GitHub
- **Operating Systems:** Windows, UNIX, Linux, macOS

PROFESSIONAL EXPERIENCE

Fidelity Investments
Back End Developer January 2023 -Present Dallas,TX

- Designed and implemented scalable architectures to support high loads and growing user bases, focusing on innovative solutions and high-performance systems in enterprise environments.
- Integrated Java applications with databases like PostgreSQL, Oracle, and MongoDB, ensuring efficient data storage and retrieval using advanced techniques, including JDBC in transactional systems.
- Engineered efficient distributed caching with Redis, improving data retrieval speed by 80% and achieving sub-millisecond response times, significantly enhancing performance for research-intensive applications.
- Showcased practical expertise in Java, leveraging key features such as concurrency, multithreading, and garbage collection to optimize system performance.
- Integrated Apache Kafka for asynchronous communication, improving microservices architecture and facilitating real-time data exchange in cloud-based scientific solutions.
- Utilized CI/CD pipelines with Jenkins, GitHub, and Docker, streamlining deployment processes and ensuring efficient release cycles for health-focused platforms.
- Developed a user management microservice using TypeScript, incorporating multi-factor authentication (MFA) to enhance security in research-focused environments.
- Collaborated with operations teams to optimize system performance, reducing server resource utilization by 40% and addressing performance bottlenecks through continuous improvement.
- Led the end-to-end SDLC for finance and health science applications using Node.js and MongoDB, crafting over 1,000 efficient REST APIs and web services to support financial and research data needs.

- Streamlined microservices CI/CD using AWS CodePipeline, automating build, testing, and deployment with

shell scripting.
- Configured AWS Lambda to process real-time data streams, ensuring efficient serverless execution and reducing infrastructure overhead in cloud-based financial and scientific applications.
- Designed scalable distributed systems for research and clinical data, ensuring fault tolerance, horizontal scalability, and secure cloud service operations.
- Leveraged AWS Clusters with EC2, Fargate, ECS, and ECR, optimizing infrastructure to support cloud-based scientific research workflows.
- Utilized AWS Athena and Glue for querying large datasets, improving query performance by 60%, essential for scientific data processing.
- Employed AWS API Gateway for scalable API management and load balancing in healthcare environments.
- Configured AWS Lambda with serverless architecture, reducing infrastructure costs by 15%.

IBM
Software Developer April 2019 – May 2021 Hyderabad,IN

- Developed backend services for the IBM Z Anomaly Analytics application, focusing on high-performance anomaly detection and efficient data processing.
- Designed and implemented complex features in Java, including state management and custom components, contributing to a scalable and maintainable backend architecture.
- Created a Python-based Installation Verification Tool that streamlined the installation process for distributed systems by isolating it from the IBM Z Mainframe, resulting in a 90% reduction in installation time and showcasing my ability to optimize complex software deployments.
- Integrated Python-Kafka and python-opensearch clients to fetch and process data from downstream applications, enabling seamless integration of components and enhancing data flow efficiency.
- Utilized Spring Framework for dependency injection, integrating it with Struts and Hibernate to enhance data management and application stability in Java-based applications.
- Designed, developed, and deployed EJB components (Session and Message-Driven Beans) within the J2EE architecture, ensuring efficient and reliable backend operations.
- Developed and optimized RESTful web services to facilitate smooth communication between Java-based backend systems and other applications, improving data exchange and integration.
- Implemented Lambda functions to support backend integrations with Python-Kafka and OpenSearch, streamlining data processing workflows and improving system interoperability
- Implemented advanced Java-based data processing algorithms for high-performance analytics, contributing to the effective handling of large datasets and anomaly detection.
- Designed and implemented programmatic transactions using Hibernate, ensuring data consistency and integrity across complex operations in backend services.
- Developed stored procedures and integrated them with Hibernate, optimizing database interactions and improving application performance..
- Created a stand-alone JAX-WS client to invoke web services, using JAX-B implementation in IBM RAD for seamless integration and interaction with external services.
- Contributed to performance tuning and optimization of applications, addressing bottlenecks and improving overall system efficiency and responsiveness.

EDUCATION

Master's in computer science
Southern University and A&M College, Baton Rouge, Louisiana June 2021 – December 2022
Bachelor of Technology in Computer Science and Engineering
Jawaharlal Nehru Technological University,Hyderabad,IN July 2015 – April 2019

CERTIFICATIONS

- Certificate in Recognition of Successful Research Paper Presentation at the SUBR Inaugural Graduate Students Research Symposium 2022
- Certified in Amazon EKS Anywhere
- Achieved certification in Modernizing .NET Applications with Infrastructure as Code and CI/CD
- Attained certification in .NET Workloads on AWS Lambda
- Completed training on Amazon API Gateway for Serverless Applications
- Achieved proficiency in AWS Tools to Develop, Run, and Modernize .NET Workloads
- Completed Advanced Testing Practices Using AWS DevOps Tools
- Attained certification in AWS Practices for Hybrid Cloud Adoption