Ramesh Dhason

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Senior Full Stack Engineer with 20+ years of experience in designing and building high-performance web applications. Proficient in building robust backend solutions with **Java, Node.js in AWS,** alongside modern, responsive frontend interfaces using **React, HTML, Tailwind CSS, and TypeScript**.

Professional Summary

- Extensive experience in developing **Java-based RESTful** services using **Spring Boot** and **JAX-RS**, ensuring efficient, scalable, and secure client-server communication.
- Expert in frontend technologies, including **HTML, CSS, React.js, Javascript, Typescript, Bootstrap, Tailwind CSS** for creating dynamic, responsive, and user-centric interfaces while ensuring optimal performance across all devices.
- Proven expertise in building serverless web applications, hosting **React in S3 with CloudFront**, and creating backend services with **Lambda Functions**, **exposed through API Gateway or AWS AppSync**
- Skilled in building and managing **Spring Boot** microservices with RESTful APIs in a **microservices architecture,** utilizing AWS services like Elastic Load Balancing (ELB) and Amazon SNS/SQS for message-based service communication.
- Proficient in AWS services such as **Elastic Kubernetes Service (EKS), Elastic Beanstalk, Lambda, EC2, S3, API Gateway, Opensearch, Elasticsearch and RDS**, with a focus on deploying microservices in a cloud-native environment.
- Extensive experience with **AWS IAM** roles, **security best practices**, and **API Gateway** for securing microservices and managing access controls.
- Hands-on experience with AWS infrastructure automation using **CloudFormation, and AWS CDK** to ensure efficient and repeatable deployments.
- Proficient in using **Docker and Kubernetes** for containerization and orchestration, deploying microservices on **AWS EKS or ECS**, ensuring seamless scalability and management.
- Experienced in building test automation using **Playwright, Selenium**, and Node.js test frameworks like **Jest** and **Mocha** for unit testing and reliable test coverage.
- Proficient in **CI/CD pipelines**, using tools like **Jenkins a**nd **Maven/Gradle**, to automate testing, building, and deployment processes for microservices.
- Extensive experience in working with relational databases like MySQL, Postgres, and NoSQL databases like **MongoDB, DynamoDB, and Neo4J** ensuring seamless data handling.
- Adept at working in **Agile environments**, collaborating with cross-functional teams, and delivering high-quality cloud-native solutions within deadlines.

Education

Bachelor of Engineering

Professional Experience

Senior Fullstack Engineer, NBC Universal   **Apr 2024 – Present**

Responsibilities:

- Develop and maintain GraphQL services using AWS AppSync and Java-based Netflix DGS framework, delivering highly efficient and scalable APIs.
- Implement and manage GraphQL federation using Apollo Federation, enabling the seamless integration of multiple GraphQL services into a unified API gateway.
- Built frontend interfaces with React.js, TypeScript, and Tailwind CSS for content management and analytics portals.
- Designed and integrated REST APIs for frontend consumption, enhancing data flow between microservices and UI components.
- Ensure robust authentication and authorization mechanisms using AWS Cognito and other security protocols, protecting sensitive data and maintaining compliance with industry standards.
- Integrate with AWS services such as Lambda, S3, DynamoDB, and RDS, deploying, monitoring, and scaling GraphQL services in a cloud-native environment.
- Participate in code reviews, mentoring junior developers, and enforcing best practices for clean code and performance optimization.

Senior Software Engineer, Sisense   **Oct 2021 – Jan 2024**

Responsibilities:

- Performed Full Stack development of the high-profile customer facing core product features using ReactJS, Redux, React Hooks, resulting in bug free releases that have been deployed within all set targets.
- Coordinated with various engineering and product teams to identify customer requirements for the permissions management module inside the sisense product, and have successfully implemented within the set timeline.
- Worked with UX designers and product managers to build the user interface of a complex data visualization application using TypeScript and React.
- Developed data pipelines using Java and AWS services like Lambda, S3, and DynamoDB, ensuring seamless ingestion and transformation of Sisense datasets.
- Automated deployment of Sisense integration services using CDK and CloudFormation templates, reducing setup time by 40%
- Secured REST API endpoints using AWS Cognito for user authentication and fine-grained access control.
- Designed and developed RESTful APIs in Node.Js for Sisense user interaction, integrated seamlessly with AWS services for enhanced functionality.
- Developed features in SisenseJS, which can be used to embed the data visualization dashboards in third party applications without an iframe.
- Implemented unit tests and integration tests for the high profile customer facing product, which reduced the system failures and kept the daily builds green.

Senior Software Engineer, AstraZeneca   **Sep 2020 – Oct 2021**

Responsibilities:

- Implemented real-time data pipeline to process unstructured data from various data sources using API Gateway, S3, AWS Lambda Microservices and stored processed data in Graph database.
- Developed Java batch jobs for data ingestion using Spring Batch deployed in AWS Batch compute environment.
- Implemented Java REST APIs using spring framework and deployed docker containers using AWS Fargate instances.
- Migrated legacy JSP pages to modern React.js components, improving page load times and user experience.
- Developed the Admin module front-end web pages using React framework and integrated the components with backend REST services

Senior Software Engineer,IEEE   **Jun 2011 – Sep 2020**

Responsibilities:

- Designed and Developed the REST APIs and the Java service layers using Spring framework and deployed in AWS Elastic beanstalk environment.
- Developed the front-end web pages using React framework and integrated the components with the backend REST services.
- Integrated Elasticsearch for full-text search capabilities within internal data portals.
- Designed and developed Java-based microservices in AWS Cloud for image optimization, file uploads, and scheduled email reminders
- Integrated third-party services and external APIs to reduce system complexity and improve the codebase.

Senior Java Engineer, Citigroup   **Apr 2010 – Jun 2011**

Responsibilities:

- Worked as Lead Java engineer and have developed the CitiBank Banking Evolution 1.2 product's quartz based scheduling system for running batch jobs.
- Involved in requirement analysis, requirement definition, design, coding, re-factoring, testing phase , change requirement tracking and implementing the functionalities, and maintenance of the project.
- Implemented Spring Security for secure transaction processing and user authentication.
- Adopted J2EE best Practices by implementing Abstract factory pattern, Session Facade, Value Objects, Data Access Objects, Service Locator, Singleton and other J2EE patterns Coded the business layer and DAO classes for the system.
- Implemented Test Driven Development and developed Test cases for all the modules developed.
- Coded the required service layer methods using spring and hibernate framework.

Software Engineer, Marsh Inc   **Jan 2008 – Apr 2010**

Responsibilities:

- Worked as Lead Java Developer, in Marsh's Market Analysis Reporting & Tracking product and have developed the web application using Struts Framework and java based REST services.
- Design and Development of Submission Documents Rendering System using the existing DRS Module.
- Extensively involved in coding for the Submission data capture screens and market request creation screens.
- Coded the Message Driven Bean for handling document generation requests using ASPOSE API.
- Involved in documenting the project using UML modeling diagrams (Use case, class diagram, sequence diagrams and component diagrams).
- Coded the Core Entity Framework classes for CRUD operations of submissions, market details using spring framework.

Software Engineer, Nomura Securities   **Nov 2006 – Dec 2007**

Responsibilities:

- Worked as lead java consultant in the Nomura's Fixed Income group and have designed and developed the frontend web application and integrated with the rules engine for the real time interest rate calculation API.
- Design and Development of Nomura's VALIDATION RULE ENGINE for validating a Loan.
- Extensively involved in the design and coding for the LOAN PRICING ENGINE.
- Coded Hibernate Data objects and the business methods in the session beans.
- Extensively involved in re-factoring of the Pricing Engine framework.

Software Engineer, Bank of New York   **Oct 2004 – Nov 2006**

Responsibilities:

- Involved in designing and developing BNY's investor reporting web platform, using struts web framework and worked on java based back-end services integrated with IBM DB2 database.
- Migrate off the Lotus Domino platform to a more robust / redundant environment to support additional product lines and additional reporting requirements.
- Involved in Database Schema Design on IBM DB2 and coded Java Stored Procedures in DB2.
- Coded business/application components using EJB2.0, Data Access objects, Data transfer objects.
- Participated in all the documentations for the modules as per the Bank of New York standards.
- Extensively involved in the design and coding of report (PDF Files) loading module to load the reports to the website.