Aakash Kumar

Technology Architect
(H1B VISA holder)

Experienced Technology Architect with a track record spanning 16 years, encompassing robust Java and Spring Boot development, REST API design, Event Driven Microservices, Kafka integrations, AWS Cloud infrastructure, and DevOps methodologies.

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WORK EXPERIENCE

Technology Architect
Infosys Limited

Worked as an architect and software developer, engaging in both software architecture design and application programming, and also took on roles as a project lead on multiple initiatives.

Achievements/Tasks

- **Software Architecture & Design Acumen**: Proficient in architecting scalable solutions, leading end-to-end design, and creating comprehensive architectural blueprints, system diagrams, and technical documentation.
- **Application Development**: Seasoned in React.js, I specialize in crafting responsive web interfaces. Additionally, my expertise extends to Java for robust backend development, complemented by proficiency in Spring Boot for web application, REST APIs creation.
- **Advanced Microservices Implementation** : Renowned for architecting and implementing sophisticated event-driven microservices by adhering to recognized industry frameworks and patterns such as Domain-Driven Design, CQRS and SAGA Pattern.
- Utilizing Kafka for robust event messaging, Splunk for granular logging, and Dynatrace for holistic system monitoring.
- **Holistic Application Security** : Proven track record in embedding multi-faceted security measures within applications, encompassing SAML, OAuth2, JWT Tokens, and the seamless integration with platforms like OKTA.
- **Performance Optimization & Scalability**: Demonstrated proficiency in leveraging tools such as JProfiler, Dynatrace to enhance application performance.
- Proficient in designing cloud-native, distributed solutions with Elastic Load Balancing, Auto Scaling Groups, and AWS RDS Read Replicas for seamless scalability, ensuring high availability and fault tolerance.
- **Cloud Infrastructure & Design Expertise** : Profound proficiency in designing, architecting, and establishing cloud infrastructures using Terraform and AWS services.
- **Containerization Competence** : Profound hands-on experience with leading containerization technologies including Docker, Kubernetes, and Openshift, optimizing for scalability and fault tolerance.
- **DevOps**: Experience in integrating DevOps tools and practices, to streamline development and deployment processes, ensuring agility and consistency.

TECHNOLOGY STACK

Cloud Infrastructure
AWS Services (IAM, VPC, EC2, S3, Route53, Lambda, CloudWatch, Elastic Load Balancer, Auto Scaling Group etc.); Hashicorp Terraform; Docker; Kubernetes; and Openshift.

Software Architecture & Design
Design Patterns (e.g., Business Delegate, Service Locator); Modeling (UML, ERD); Architectures (Microservices, Event-Driven); API Design (RESTful, GraphQL); Scalability (load balancing, partitioning, caching); Databases (Relational, NoSQL); Integration (Spring, AWS Step Functions).

Application Programming
React JS; Java 1.8 Streams & Collections, Spring Boot, Spring Reactive, Spring Data JPA, Spring Integration, MSSQL Server Stored Procedures.

Microservices
Spring Boot REST API; Kafka;

Application Security
SAML, AWS Directory Services; AWS Identity Management; AWS Cognito; Hashicorp Vault; OAuth2; JWT Tokens; OWASP; and OKTA.

Application Logging & Monitoring
Splunk; Dynatrace;

DevOps
Jenkins; Nexus; SonarQube; Ansible; XLR

CERTIFICATES

AWS Certified Solutions Architect Associate (01/2021 - 01/2024)
https://www.youracclaim.com/badges/0efb08d5-45ed-4c81-ae7f-a01d860bc00f?source=linked_in_profile

HackerRank Certified REST API Developer (08/2020 - Present)
https://www.hackerrank.com/certificates/c98ac3323a64?utm_medium=email&utm_source=mail_template_1393&utm_campaign=hrc_skills_certificate

WORK EXPERIENCE

Lead Software Engineer
Trimble Mobility Solutions India Pvt. Ltd

10/2011 - 08/2016

Worked on a Telematics GPS product that is used to track the vehicle's live location and compute metrics like ETA, TAT, and Reporting.

Achievements/Tasks

- Designed and developed a system for handling large-scale streaming data using JBoss Netty 3 Sockets and JBoss Hornet Queue.
- Designed and implemented a Complex Events Processing (CEP) module to develop an Alerting System like overspeeding alerts, Consignment Dispatch alerts, Consignment Pre-Delivery alerts, Accident Prone Area alerts, etc. based on the streaming GPS data
- Implemented the Batch Processing module for various system critical data using Java 5 Executors framework.
- Developed complex algorithms in the SQL Server Database using the Stored Procedures.

Senior Software Engineer
BNP Paribas India Solutions Pvt. Ltd

04/2009 - 10/2011

Worked as a software developer on the bank's internal projects

Achievements/Tasks

- Worked on UI development using ExtJS 3 UI Framework. This was for a Reconciliation project where all the day to day transactions of the share market was compiled.
- Worked as a Java Developer in the Java 5 and Struts 2 framework for Europe Billing and Reporting project.

Software Engineer
Kpit Cummins Infosystems Limited

12/2006 - 12/2008

Achievements/Tasks

- Worked on the promotions section of the e-commerce website where based on the customer profile and season vouchers were gifted to the account.

DOMAIN EXPERIENCE

Banking & Financial Services

Telematics

E-Commerce

SKILLS

React JS Java Spring Boot

REST API Microservices Kafka

Splunk Dynatrace Docker

Kubernetes Openshift AWS

Terraform Ansible Jenkins

Nexus OAuth OKTA

Backend Developer Full Stack Developer

Software Architect

EDUCATION

Bachelor's Degree: Electrical, Electronics and Communications Engineering
Dr. Babasaheb Ambedkar Marathwada University, Aurangabad

08/1997 - 06/2002
Aurangabad, Maharashtra, India