## Akshita

[Akshita4054@gmail.com](mailto:Akshita4054@gmail.com)

8728010828

[https://](https://www.linkedin.com//)[linkedin.com/in/akshita-singh-498172303](https://www.linkedin.com/in/akshita-singh-498172303)

**PROFESSIONAL SUMMARY**

* 8 years of demonstrated work experience in all phases of Software Development Life Cycle (SDLC) like

Requirements Analysis, Design, Implementation, Testing, Deployment and Maintenance using popular methodologies like Waterfall and Agile, that consistently delivered high-quality software solutions.

* Skilled in front-end technologies like HTML5, CSS3, JSP Servlet, JavaScript, jQuery, AJAX and Angular (TypeScript) that helped me build responsive and dynamic web applications and improve overall user interaction and user experience.
* Strong expertise in back-end technologies with primary focus in Java programming concepts like Object Oriented Programming, Generics, Collections, Multi-threading, Exception Handling, Lambda expressions, Data structures etc.
* Proficient in several modules of Spring Framework such as Spring Core, Spring MVC, Spring Security, Spring ORM, Spring JDBC, JPA Hibernate, Spring Boot 3, Spring Cloud with hands-on ability to build applications using both legacy and modern approaches.
* Highly skilled in developing RESTful Web Services, proficiently designing, and implementing robust APIs to facilitate seamless communication and data exchange between applications in JSON/XML format.
* Proficient in microservices development using Spring Cloud libraries, with hands-on experience in technologies like Spring Cloud Config Server, Resilience4j, Eureka Server, Rest Template, Feign Client, Spring Cloud API Gateway etc., ensuring seamless communication and effective coordination among microservices.
* Experience in solving software design issues by applying SOLID design principles and Java, J2EE design patterns including Singleton, Factory, Proxy, Front Controller, Dependency Injection, Builder Pattern, DTO, DAO, Observer Patterns.
* Responsive web applications using React, with hands-on experience in building reusable components, managing state with Redux, and integrating RESTful APIs.
* Skilled in utilizing React Router for seamless navigation and implementing testing frameworks like Jest and Enzyme to ensure robust code quality
* Well-versed with developing event driven microservices using Apache Kafka and RabbitMQ.
* Adept at writing complex queries, Indexes, Stored procedures, Triggers & Functions in relational databases like MySQL, Db2 and NoSQL databases like MongoDB.
* Skilled in creating comprehensive API documentation using Swagger/OpenAPI and in leveraging Postman for testing API endpoints resulting in accurate and high-quality software.
* Experienced in designing and executing test suites for unit testing and integration testing leveraging JUnit 5, Mockito, Cucumber, Jacoco and practicing TDD.
* Adept at using a wide range of IDEs, web servers, build tools like Eclipse, Spring Tool Suite, Microsoft Visual Studio Code, Tomcat and Maven, proving my remarkable ability to swiftly adapt to varying development environments to develop Java applications.
* Extensive experience with version control systems like Git like GitHub and Bitbucket, following industry standards like meaningful commit messages, testing before pushing, resolving conflicts during merges etc.
* Familiar with using CI/CD technologies like Docker, Jenkins to establish CI/CD pipelines and deploying applications on Kubernetes clusters in AWS.
* Familiar with AWS technologies like AWS EC2, ECR, ECS Fargate, EKS, Ingress, Route 53, AWS RDS, S3, ALB, CodePipeline, Lambda, Serverless, DynamoDB in AWS.
* Demonstrated expertise in Agile methodologies, including Scrum, through active participation in sprint planning, retrospective, and backlog refinement sessions.
* Proficient in utilizing project management tools such as Jira, Confluence for backlog refinement and sprint planning, facilitating accurate effort estimates and identifying dependencies.

**TECHNICAL SKILLS**

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| --- | --- |
| **Languages** | Java 7/8/11/17 |
| **J2EE** | Servlets, JSP, JDBC, JTA, JSF, EJB, JMS, JNDI, Java EE, JavaMail, WebSocket, JAXB,  JAX-RS, JAX-WS |
| **Web Technologies** | Angular JS, Angular 8/9, Bootstrap, jQuery, JavaScript, CSS3, TypeScript, JSON,  AJAX,React |
| **Markup Languages** | HTML, XML, XSLT, XHTML, YAML, JSON, CSV |
| **Frameworks** | Struts, Spring MVC, Spring Boot, Spring Cloud, Microservices. |
| **IDEs and Tools** | Eclipse, Spring Tool Suite, Visual Studio Code, IBM RAD |
| **Web Services** | SOAP, WSDL, REST API, Microservices |
| **Web/Application Servers** | Apache Tomcat, IBM WAS/WebSphere, JBoss, WebLogic |
| **Database** | Oracle, DB2, SQL Server, MySQL, MongoDB, PL/SQL |
| **Build Tools** | Maven, Jenkins, Angular CLI, Node Package Manager |
| **Version Control, Repository** | Git, GitHub, SVN, IBM ClearCase, Bitbucket |
| **Operating System** | Windows, Linux/Unix, Bash |
| **Project Management** | Agile, Waterfall, Jira, Confluence, Swagger/OpenAPI |

**PROFESSIONAL EXPERIENCE**

**Principal Financial Group, IA**

**Senior Java Full Stack Developer**

**Jan 2024 – Till Now**

## Description:

Principal Financial Group is a investment management and insurance company which offer a wide range of financial products and services, including retirement planning, investment management, insurance products, and corporate solutions.I implemented Apache Kafka to efficiently process high volumes of daily events and developed automated alerting systems for transaction monitoring, utilizing ELK stack dashboards for trend analysis

## Responsibilities:

* Led a small team of 4 developers and streamlined the alerting and analytics workflows using Angular 13, Java 17, Apache Kafka and AWS in an Agile methodology.
* Developed Apache Kafka to efficiently process 100,000+ events daily and created an automated alerting system for high-value/unusual transactions and ELK stack (ElasticSearch, Logstash, Kibana) dashboards for banking staff to analyze transaction trends and take necessary action.
* Used Spring Boot as back-end framework and developed REST API communicating with each other using JSON/XML exchange formats.
* Implemented application and method level security using Spring Security and JWT to prevent CSRF, CORS security attacks.
* Performed unit and integration testing using JUnit5 and Mockito and leveraged actuator to monitor application health metrics.
* Implemented distributed tracing using Micrometer and Zipkin to trace requests going through several microservices and perform efficient debugging.
* Utilized Swagger/OpenAPI to generate comprehensive API documentation, facilitating seamless collaboration between frontend and backend development teams.
* Created dashboards using Angular 13 for customer support staff to view customer details, access transaction history, and receive alerts related to customer accounts, helping them respond efficiently to customer inquiries or issues.
* Leveraged Python to automate financial data analysis, develop forecasting models, and streamline reporting processes, enhancing decision-making efficiency and accuracy .
* Developed Python-based financial models for forecasting, risk analysis, and investment optimization
* Designed and developed L0 and L1 architectures for financial systems at Principal Group, ensuring scalable, efficient, and secure infrastructure to support real-time data processing and transaction management.
* Employed RxJS observables and state management techniques to manage complex data flows and integration with back-end REST APIs.
* SQL enables efficient querying, reporting, and decision-making by allowing the extraction of key financial insights from databases.
* Integrated Log4j with secure logging practices to maintain data integrity and compliance with financial industry regulations, enhancing overall system reliability and auditability.
* Implemented route guards in Angular 13 to control access to specific routes and resolve data before navigating, enhancing security, and ensuring data availability.
* Developed comprehensive unit tests using Jasmine and Jest within Angular 13, achieving high code coverage.
* Used Docker for creating Docker images and launched docker containers on AWS ECS Fargate (Elastic Container Service), using AWS ECR as container registry.
* Established service discovery between microservices using AWS Service Connect and load balanced incoming traffic using AWS application load balancer.
* Integrated Amazon Route 53 and API Gateway to facilitate efficient routing of incoming HTTP requests, enabling the mapping of custom domain names to API Gateway endpoints.
* Implemented SonarQube in a financial group to continuously monitor code quality, ensuring compliance with security standards and improving the maintainability of mission-critical applications.
* Configured API Gateway with custom domain names and SSL certificates to enable HTTPS access to APIs, ensuring data privacy and compliance with security standards.
* Performed distributed tracing using AWS App Mesh and X-ray and implemented Prometheus monitoring system to track performance metrics for the microservices hosted on Amazon ECS.
* Externalized the environment configuration details using AWS parameter store along with encryption.

## Environment: Angular 13, RxJS Observables, Java 17, OOPS, Apache Kafka, SpringBoot, Linux, AWS ECR, AWS ECS Fargate, Route53, AWS ALB, API Gateway.

**Humana, KY**

**Senior Java Full Stack Developer**

**Feb 2023 – Jan 2024**

**Description:**

Humana is a prominent healthcare company committed to improving people's well-being through innovative solutions and personalized care with a wide range of health insurance plans, wellness programs, and clinical services.I have worked as a full stack developer focusing on insurance plans , developing and maintaining software solutions that optimize the insurance experience for customers.I have involves crafting intuitive user interfaces and robust server side logic for both front-end and back-end development.I have includes designing and have implemented RESTFUL APIs to optimize performance and to ensure security ,collaborating with cross-functional teams in an agile environment.

## Responsibilities:

* Utilized Spring Boot micro-services with asynchronous event handling and Apache Kafka message queues for seamless patient data management.
* Utilized Kafka Streams API to perform real-time data processing, continuous data transformations and calculations on incoming trial data.
* Utilized Apache Kafka's partitioning and replication features to distribute workload evenly across multiple instances for efficient resource utilization.
* Employed ELK stack (ElasticSearch, Logstash, Kibana) for efficient log indexing and searching to extract valuable insights from raw log data.
* Integrated Prometheus for monitoring system health and performance by instrumenting Spring Boot microservices with custom metrics.
* Developed Grafana dashboards to visualize clinical trial metrics using data collected from Elasticsearch indices.
* Responsive web applications using React, with hands-on experience in building reusable components, managing state with Redux, and integrating RESTful APIs.
* Implemented Angular services and RxJS observables for real-time updates and data synchronization with backend APIs.
* Skilled in utilizing React Router for seamless navigation and implementing testing frameworks like Jest and Enzyme to ensure robust code quality.
* Conducted regular sprint retrospectives and reviews to gather feedback from stakeholders and improve development processes iteratively.
* Implemented OAuth2.0 protocol and utilized JWT tokens issued by Keycloak to enforce for secure authentication and authorization across microservices., ensuring data security and compliance.
* Employed Spring Cloud Gateway as the API gateway and used its built-in features, such as rate limiting, circuit breaking, and request logging, to enhance scalability, resilience, and observability of the system.
* Implemented Spring Cloud Config Server to centralize and enable dynamic refresh for configuration properties across microservices.

## Environment: Java 8, Spring Boot, Spring Cloud, Spring Security, OAuth 2.0, Microservices, React, Swagger/OpenAPI, JUnit5, Prometheus, Grafana, ELK Stack, Spring Cloud Gateway/API Gateway.

**ARGOS,Bangalore India Java Developer**

**Sep 2018 –Sep 2022**

**Description:**

The e-commerce application is a comprehensive online shopping platform designed to provide users with a seamless and intuitive shopping experience. It leverages microservices architecture with Spring Boot for the backend and React for the frontend, ensuring modularity, scalability, and maintainability.

**Responsibilities:**

* Requirements Gathering, Analysis.
* Research technology stack, proposal and POC.
* Participated in database design, tables and views structure for the application.
* Project setup and configuration using Spring Boot 2.x.
* Developed various components by using the features like Spring Framework Spring Dependency Injection, Spring beans, Spring Data JPA.
* Developed Spring REST based Webservices.
* Implemented Spring Security and JSON Web tokens to achieve Authentication & Authorization for the applications.
* Developed the front-end using Angular 11, Bootstrap5, HTML5, CSS3.
* Developed unit test cases using Junit 5 and Mockito framework for testing. Code coverage analysis done using EclEmma/Jacoco.
* Logging is done using SLF4j + Log4j. Monitored using Splunk.
* Used Coverity scan and PMD to improve the code quality.
* Involved in developing various database components such as DDL, DML, Stored Procedures Oracle.
* Followed Agile/Scrum Methodology. Used JIRA for Sprint Planning.
* Performed Code Reviews.
* Used Postman rest service testing.
* Provide technical mentoring to other developers.
* Actively participated in meetings with Business Analysts and Architects to identify the scope, requirements, and architecture of the project.
* Documented both HLD and LLD for the respective modules.
* Implementation of Spring Bean classes and DTO classes that are providing different services.
* Designed and developed DAO layer with Hibernate standards, to access data from MySql db.
* Built React application utilizing Redux for state management.
* Designed front-end user interfaces with React by creating many components and modules by using material ui.
* Developed the React application with various Spring Framework modules like Spring IOC, Spring AOP, Spring Boot.
* Utilized React-Router to create Dynamic Routing.
* Performed unit testing, functional testing.

## Environment: Java 1.8, Spring Core, Spring Jdbc, Spring AOP, Hibernate, REST api, MySQL, Html5, Css3, React

**Wipro, India**

**Java/ J2EE Developer**

**Aug 2016 – Sep 2018**

**Description:**

My responsibilities included upgrading existing user interfaces with modern technologies such as HTML5, CSS3, JQuery, and Bootstrap, as well as developing custom, single-page web applications using AngularJS. I implemented JavaScript and AJAX for user event handling and validation, while also integrating auto-complete functionality using Ajax, jQuery, and JSON.

**Responsibilities:**

* Works closely with Synchronous business teams, technical leads, design teams and development teams onsite/offshore to ensure delivery of application on time with no slippage and with high quality
* Participate in all agile ceremonies such as sprint planning, backlog grooming, story point estimation, sprint review, retro and share the feedback with the team.
* Product design and development using Java/J2EE technologies, Python, REACT JS, JavaScript, Node JS, Apache Wicket, REST Web Services, SOAP Web Services, JPA, Postgres, DB2, HTML 5, CSS 3
* Creating and Executing test scripts for regression testing of web application using selenium &cucumber.
* Design reusable React JS components, Redux, reducers, store, redux-thunk, Forms, Axios Router.
* Experience in Cloud plot forms like GCP (google cloud platform) and AWS (amazon web services)
* Worked on Swagger API and auto-generated documentation for all REST calls
* Worked on postman and ARC to test REST service calls
* Wrapper developed in Python to run this application along with other application.
* Developed Camel routes using Scala DSL and developed custom message converters.
* Created mocking services for testing in QA Dev environments.
* Integrated configured Camel with ActiveMQ to use it as bus.
* Created dashboards in Grafana using Kafka consumer and in house-built storage API
* Orchestrated CI/CD processes by responding to Git triggers, human input, and dependency chains and environment setup.
* Created AWS S3 buckets to store smart home device data and utilized various AWS services like EC2, Route 53, IAM, Cloud Formation, Cloud Front, and Cloud Watch.
* Apache camel Kafka end point used to publish trade flow to Apache Kafka. TFM (Transaction Forensic Monitor) to track transaction details.

**Environment:** Java/J2EE, HTML5, CSS3, JavaScript, React JS, Swift, Node JS, Gitlab, CI/CD pipeline, Docker, Gitlab Runners, BDD, TDD, .net, Swagger, SonarQube, Spring boot, AWS, Apache Wicket, REST, RTC, SNOW, Eclipse, VS Code, Postgres, MSSQL, Python, Postman, ARC, Kafka, Grafana, Kibana, Splunk, JSON, JIRA.

# EDUCATION DETAILS

## Bachelor of Engineering in Information Technology June 2016

**Master of Science in Software Engineering Dec 2023**