**Alekhya Y**

**Sr. Full Stack Java Developer  
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**PROFESSIONAL SUMMARY:**

* Having around **8 years** of professional experience in Software Development Lifecycle (**SDLC**) core areas such as Analysis, Design, and Implementation, testing of web and distributed n-tier applications using **Java** and **J2EE** technologies in different domains.
* Extensive experience in **AWS Cloud** and Its Components like **EC2, S3, Lambda**, **Auto Scaling**, Elastic Search, **Cloud Watch** and Cloud Formation, and Step functions.
* Experience with **Kubernetes** and **Terraform**.
* Experience in **GCP** **PubSub/BQ/GCS/Cloud Functions/GKE/Dataflow/IAM**.
* Experience in **Azure SQL, Containers, Automation**, and **Functions**
* Experience in working with Agile and Waterfall methodologies, **Scrum** and Test-Driven Development (**TDD**). Working knowledge and experience in a multi-tiered distributed environment, **OOPS** and **OOAD** concepts, a good understanding of Software Development Lifecycle (**SDLC**) and Service Oriented Architecture (**SOA**).
* Proficient in Data Structures and Algorithms.
* Expertise in distributed, secure and scalable application development using **J2EE Technologies** like **Servlets, JDBC, Spring IOC, Spring MVC**, Amazon Web Services (**AWS**), and Web Services development (**SOAP** and **Restful**).
* Experience with Java-based ORM frameworks such as **Hibernate** (including connection pooling, mapping, transaction management, and **HQL** (Hibernate Query Language) and **Spring Data**.
* Software Analysis, Design and Development knowledge in **Angular JS, Angular 12, Java, J2EE**, **HTML, CSS**, **JavaScript**.
* Experience with **CI/CD** pipelines to integrate the Java code to align with DevOps practices using **Docker**. Experience in containerizing applications using docker and deploying to Kubernetes cluster.
* Expert in developing User Interface (**UI**) Applications and professional Web Applications using Web Standards, **HTML5, CSS3**, Object Oriented, **JavaScript, ReactJS, Node JS, JQuery**, **Bootstrap3**, **Typescript**, **Ajax Concepts**, **CSS3** Media Queries.
* Expertise in **Core Java** concepts including Collections, Exception **Handling, Multi-Threading**, Generics and **Java I/O,** etc.
* Customized **Restful Web Service** using **Spring Restful API**, sending **JSON** format data packets between front-end and middle-tier controllers.
* Have strong exposure and work experience on core java concepts **collection API, Stream API**, Parallel Streams, exception handling, **Multithreading, HashMap, concurrency**, **JDBC**, modularity, executor service, fork and join frameworks.
* Solid experience with Responsive Web Design (**RWD**).
* Created Unified Modelling Language (**UML**) diagrams such as Use Case Diagrams, Sequence Diagrams, Class Diagrams, and Activity Diagrams.
* Proficient in writing **SQL queries**, **PL/SQL** stored procedures, **Triggers** and creating business tables. Possess strong working knowledge of Database Programming using **SQL, PL/SQL**, Triggers and Stored Procedures.
* Expert in **HTML5/CSS3** development and have experience in **Backbone.js, Require.js**, **Node.js**,**Angular 8/9/10**, **Grunt js**, Responsive design.
* Experience with **NOSQL** Databases like **Mongo DB, Cassandra, HBase**
* Experience in working on web servers like **Apache Tomcat**, and Jetty and application servers like **Web logic, Tomcat** to deploy code.
* Setting up and configuring **Kafka** Environment in **Linux** from scratch and monitoring it. Involved in creating the **Unit test case** using **JUnit**.
* Excellent working knowledge and thorough exposure on compatibility issues with different versions of browsers like Internet Explorer, Mozilla Firefox, Safari, and Google Chrome.
* Extensively worked on debugging using logging Frameworks such as **Apache Log4J**.
* Good Knowledge of using **IDE** Tools like **VS Code**, and **IntelliJ** for **Java/J2EE** application development.

**TECHNICAL SKILLS:**

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| --- | --- |
| **Web Technologies** | HTML5, CSS5, XML, JQuery, JavaScript, React JS, Redux, JSF, Node JS |
| **Languages** | JavaScript, Java, Java EE, TypeScript, SQL, PL/SQL, Python |
| **Server-Side Frameworks** | Node.js, Express.js, Spring, Spring Boot, Spring MVC, Hibernate |
| **Web/Application Servers** | Apache Tomcat, WebLogic, WebSphere, JBoss |
| **Databases** | Oracle 12c, MySQL, MS SQL, No SQL, Mongo DB, Apache Cassandra, PostgreSQL, Redis |
| **AWS Stack** | EC2, S3, Lambda, RDD, Auto Scaling, Cloud Watch, Cloud Formation, IAM, Security Groups, Step functions |
| **GCP Stack** | PubSub, BQ, GCS, Cloud Functions, GKE, Dataflow, IAM |
| **Azure Stack** | SQL, Containers, Web, Functions |
| **Tools & IDE** | IntelliJ, Visual Studio and Spring Tool Suite (STS), Vim, Sublime |
| **Version Control** | GIT, SVN, CVS |
| **Message Brokers** | Kafka, AWS SQS. |
| **Testing** | JUnit, TestNG |
| **Build tool** | Ant, Maven. Docker, Gradle, Kubernetes, Terraform |
| **Web Services** | RESTful Web Services, SOAP Web Services -JAX- WS-API |
| **Methodologies** | Agile, Scrum, Waterfall, Kanban |
| **Operating System** | Windows, UNIX, Mac OS X, Ubuntu, Linux. |

**PROFESSIONAL EXPERIENCE:**

**Panasonic, Farmington Hills, MI Jul 2022 – Till Date**

**Sr. Full Stack Java Developer**

**Description:** Panasonic is a leading technology partner to businesses and governments, at the forefront of everything from electric batteries to smart cities to high-tech stadium experiences.

We provide a wide range of integrated solutions across many different industries, including automotive, avionics, energy and utilities, food services and hospitality, retail, government and public safety, logistics, manufacturing, and sports and entertainment.

**Responsibilities**:

* Worked in a highly dynamic **AGILE** environment and participated in scrum and sprint meetings.
* Extensively used **Java 8** features such as lambda expressions, Parallel operations on collections, multithreading and for effective sorting mechanisms.
* Used Streams and Lambda expressions available as part of **Java 8** to store and process the data.
* **MYSQL** was used as the database for the application which was hosted in the cloud using **Amazon** **RDS** service.
* Migrated **Angular JS, Angular 9** components to **Angular 12.**
* Re-designed, re-architected and built the existing application using **Java 11, Spring Boot,** **Spring Reactive** Stack (**WebFlux**), **GCP**, **PostgreSQL** and **Maven**
* Involved in the development of **Microservices** for all the models using combination of **Spring Boot** and **Spring Security**.
* Developed front end using **Bootstrap**.**js**, **Angular.js, Node.js, D3.js, Backbone.js**, where back end is **JAX-RS** (Jersey) **REST** **webservice**.
* Analysing of **SOA** based application with Solar / web service / apache ignite cache based systems for optimal design/usage.
* Worked with the **SPRING** framework **hibernate** integration to maximize the Classical model view controller layer ( **MVC** ) Architecture.
* Implemented **SPRING MVC** application framework to create and configure of **Java beans** using **SPRING IOC** and used **SPRING** **Hibernate** **support**, transaction management.
* Implemented **Restful** **Web services** to retrieve data from client side and made **REST API** calls from **Angular JS** and parsed the data to project to client and handled the security and Authorization using **Spring Security** and **OAuth1/2**.
* Implemented **Microservices** using Pivotal Cloud Foundry (**PCF**) platform build upon Spring Boot services.
* Creating **REST based Web Services** by establishing links using **HATEOAS** from spring based Applications.
* Involved in developing **API’s** and **Rest API** proxy using **APIGEE** edge and for sending mobile notifications.
* Developed automation scripting in **Python** to deploy and manage **Java SE11** applications across **Linux** servers
* Providing a responsive, **AJAX**-driven design using **JavaScript** libraries such as **Angular.Js,** **Node.js, D3.js, Backbone.js, Bootstrap**.**js** and **Bootstrap.js**
* Selecting the appropriate **AWS** service based on compute, data, or security requirements.
* Developed the Web Services Client using **REST, RSDL** for verifying the new customer history to a connection.
* Developed **DAOs** (Data Access Object) using **Hibernate** as **ORM** to interact with **DBMS** - **MySQL** and **Mongo DB** .
* Optimized the full text search function by connecting to **Mongo DB** .
* Worked with **Docker** to deploy Micro-services in modern containers to increase Isolation.
* Worked on Thread handling to maintain continuity of execution and extensively implemented **Multithreading** concept to handle Transaction Management with isolation and propagation levels.
* Worked on **Web Services** using **Java SE11** **API** for **XML, JSON** Services (**JAX RS**) and worked on the build, deploying **Restful** **web services**
* Involved in Designing Kafka messaging queues.
* Used **MAVEN** as a Build Process and used generating Documentation, Reporting, and adding Dependencies.
* Strongly recommended to bring in **Elastic Search** and was responsible for installing, configuring and administration of a 6 node **Elastic search** Cluster
* Developed **CI/CD** system with **Jenkins** on **Kubernetes** environment, utilized **Kubernetes** and **Docker** for the runtime environment for the **CI/CD** system to build, Test and Deploy.
* Performed daily Night Build & Weekly Build & Release for the product using **Ant , Maven** build scripts.
* Setting up **AWS** **Oracle RDS** databases for new project, use data pump to migrate data to Relational Database Services (**RDS**).
* Designed dynamic client-side **JavaScript** codes to build web forms and simulate process for a web application, page navigation using **Angular 12.**
* Used **spring framework** for integrating the MVC components with business services
* Using JUnit test in Eclipse, developed Unit test cases and test suite, Curl was also implemented to test.
* Created Multiple **Kubernetes** Cluster in **AWS** and deploying a **Docker** Image on top of **Kubernetes** **Cluster** for testing purpose.
* Used **Jenkins** as the integration tool and improved scalability of applications on cross-platforms.
* Identifying the problem areas by using **elastic search** **Kibanna** with Logstash to import .csv files
* Deployed the Application **EAR** and **Restful Services** on **JBoss** Application Server.
* Involved in Production Support and Maintenance of the application and troubleshooting of Issues on **JBoss** by checking logs, payments etc.

**Environment:** Java 11, J2EE, Angular 12, Spring Boot, Spring Cloud Config, Spring Data JPA, Eclipse IDE, Java 1.8, Maven, Junit, Bitbucket, Jenkins, JBoss, Spring framework, MYSQL, Mongo DB, Oracle, Mongo DB, SoapUI, Insomnia, Splunk, JIRA, AWS, Hibernate, Node JS, Agile/Scrum Methodology.

**Hussmann, St. Louis MO Apr 2021 – Jun 2022**

**Sr. Full Stack Java Developer  
Description:** Hussmann is more than a world-class manufacturer of quality display cases and refrigeration systems. We create innovative solutions and value-added benefits that improve your financial results.

**Responsibilities**:

* Analysed business requirements, participated in technical design, development and testing of various modules assigned.
* Involved in designing **Micro Services** using **Spring Boot**.
* Involved in developing **RESTful Web Services** with **Spring** to provide functionality for future development.
* Used **Spring Data JPA** with entity beans for interacting persistence layer for **CRUD** operations.
* Implemented **Microservices** on **RedHat OpenShift** based on **Kubernetes**, and **Docker** to achieve Continuous Delivery.
* Implemented data-binding and **MVC** using **Angular.JS 8/9/10** for front-end development of a current web application.
* Implemented Presentation layer using **CSS** Framework, **Node.JS, Ext JS, React JS, AngularJS**, **knockout JS, Wire-framing, HTML5**.
* Implemented **Restful web services** by using **JAX-RS [JERSEY]**.
* Used **Elastic Search** to index million products from **MySQL**, then construct backend APIs to provide search functions with full-text search, proximity matching, relevance, and keyword suggestions
* Extensively used **Java 8** features such as lambda expressions, Parallel operations on collections, multithreading and for effective sorting mechanisms.
* Worked on Asynchronous messaging system by implementing **JMS** through Point-Point and Publish-Subscribe **MQ-Series architecture**.
* Wrote Angular JS frontend, which queried a custom **Elastic search** server for search terms, and hosted everything on an **AWS** instance with **Docker** containers
* Implemented **Message Driven Beans** to develop the Asynchronous mechanism to invoke the provisioning system when a new service request saved in the database.
* Developed interfaces and their implementation classes to communicate with the mid-tier (services) using **JMS**.
* Used Amazon Cloud Watch to monitor **AWS** services and **Amazon Cloud Watch** logs to monitor application.
* Developing Web Application in **Groovy/Grails** with **Mongo DB** as a data stores using the IntelliJ Idea IDE with the latest **Grails SDK, Java**.
* Developed the application using **Hibernate** and **Spring Framework**.
* Database development using **Oracle, SQL Server, MySQL**, **JDBC, PL/SQL**
* Implemented the application using **Spring IOC**, **Spring MVC** **Framework**, **Spring AOP**, **Spring** **Boot**, **Spring** **Batch**, and handled the **security** using **Spring** **Security**.
* Involved in **consuming the web-service** calls through Client invocation.
* Used **Web Sphere** **Application** **Server** for application deployment.
* Created **Grafana dashboard** from Prometheus metrics for visualization.
* Created **SQL queries, PL/SQL Stored Procedures, Functions** for the Database layer by studying the required business objects and validating them with Stored Procedures.
* Thoroughly Unit tested the application by writing test cases for different scenarios using **JUnit**.
* Used **Postman** and **Ready API** to test the **RESTful API** for **HTTP** requests such as **GET, POST**, and **PUT**.
* Worked with various **MVC** Java frameworks like **Angular.JS, EXT.JS, Backbone.JS, Node.JS**, **Ember.JS, bootstrap.JS, Require .JS, D3.JS**, etc.
* Involved in writing **Java API**for Amazon Lambda to manage some of the **AWS** services.
* Used **Rest Controller** in **Spring framework** to create **RESTful Web services** and **JSON** objects for communication.
* Extensively participated in **Agile Development Methodologies** including **Extreme Programming XP, Agile, SCRUM** and **Test Driven Development** process, from the development phase to testing phase and postproduction phase.
* Used **Git** for version management between various integration and development streams.
* Used **Jira** to track bugs, prioritize and discuss team’s work in full context.
* Work with Offshore development team for application development and delivery.
* Involved in Production support and application releases.
* Design and develop application codes using **Java/JEE, XML, SOAP, REST, Spring Framework**, and **Hibernate Framework**
* Worked on developing **CRUD** applications using **MERN** stack (**Mongo DB, Express, React JS** and **Node JS**) and **REST** based **API**.
* Working to timescales and within cost constraints.
* Reporting progress against plan.
* Producing the deliverables/products to agreed specifications.
* Identifying issues, risks associated with the project.
* Contributing to technical design documentation.
* Debug existing source code and polish feature sets.

**Environment**: Java 8, J2EE, Spring Boot, Spring Micro Services, Spring Data JPA, Spring Data for Apache Cassandra, Spring MVC, Web Services (SOAP and REST), Servlets, JMS, MQ-Series, Maven, Gradle, OpenShift, WebSphere, Tomcat, GitHub, Oracle, Hibernate, Spring Framework, SQL, DB2, Cassandra, Log4j, Kibana, Prometheus, Grafana, Node JS, AWS, Alert manager, Mongo DB, Swagger, Junit, Soap UI, Ready API, Unix, Putty, JIRA, Eclipse, IntelliJ, Spring Tool Suit, Agile/Scrum Methodology.

**Verifone, Coral Springs FL Jul 2019 – Mar 2021  
Java Developer**

**Description:** Verifone makes it simple to revolutionize customer journeys by providing a single, unified, global platform that enables seamless payment experiences – anywhere, anytime, with any payment method. Powered by a growing footprint of over 35 million devices in more than 150 countries, we are the experts trusted by the biggest and best-known brands around the globe. Built on a 38-year history of uncompromised security, we are committed to consistently solving the most complex payment challenges.

**Responsibilities**:

* Involved in various Software Development Life Cycle (**SDLC**) phases of the project like Requirement gathering, development, and enhancements using **agile methodologies**.
* Developed **Micro Services** using **Spring Boot**, with continuous deployment and continuous integration using **Docker** and **Jenkins**.
* Extensive experience with Continuous Integration Tools **Bamboo**, and good working knowledge of source repository management tools like **GitLab**, **GitHub** and **BITBUCKET**.
* Developed modules in the application using the micro services architecture style.
* Designing and developing the **Spring–boot** **REST** services to push data to **PostgreSQL**, and save logs to **AWS S3**, validated and authorized other **REST** services.
* Involved in deploying systems on Amazon Web Services (**AWS**) Infrastructure services **EC2**. And Utilized most of the **AWS** services like **S3** as a data store for storing the files that fall into the bucket, **IAM** roles, Elastic Bean Stalk, generated Lambda Functions to trigger an event that occurs in **S3**, Code Commit as a Version control service, **AWS** **Cloud Watch**.
* Worked with team members with establishing and applying appropriate branching, labelling/naming conventions in **GIT**.
* Implemented **CI/CD** pipelines using **Jenkins** and built and deploy the applications.
* Use of **Jenkins** pipelines to drive all **Microservices** builds out to the **Docker** registry and then deployed to **Kubernetes**, Created Pods and managed **using** **Kubernetes**.
* **Spring Boot** **Microservices** were developed with **microservice** architecture using **REST** and **Apache Kafka**.
* Created **Microservices** as part of **Lambda** function development using **Node JS Serverless** architecture. Configured Kafka to read and write messages from external programs.
* Designed and developed **Microservices**, and **Rest/Soap** services using **Spring Boot, Spring MVC, Spring Batch, spring** integration based on the requirements.
* Used **Jenkins** server for code monitoring during the code integration phase.
* Virtualized the servers using **Docker** for the test environments and dev-environments needs, also configuration automation using **Docker** containers.
* Configured **Kafka** to handle real-time streaming of the data (Producers/Consumers) Used **Node JS** to run Web pack tasks and build properly the project.
* Developed **Web API** using **Node JS** and hosted on multiple load-balanced API instances.
* Deployed **Spring Boot**-based **microservices** Docker container using **Amazon EC2** container services and using AWS admin console.
* Used Maven build tool to build and deploy the application and **Jenkins** for continuous integration.

**Environment**: HTML, CSS, JavaScript, AWS, Mean Stack, Mongo DB, Express, Node JS, JQuery, Ajax, Spring MVC, Spring Boot, React JS, Maven, Micro Services, CI CD Pipelines, Jenkins, Apache Kafka, Docker, Kubernetes, PostgreSQL, Mockito, Git Lab.

**LatentView Analytics, India Sep 2017 – Dec 2018**

**Java Developer**

**Responsibilities**:

* Get requirements from client and prepare requirement documents
* Developed critical components of the application including **spring forms**, **spring** controllers, **JSP** views, and business logic and data logic components that include **Hibernate** Entities, **Spring-Hibernate DAO** and **spring** models following **MVC** architecture.
* Involved in designing and development of presentation layer **JSP, JSTL**, and **JavaScript**
* Queries development for generating required reports
* Supported **QA** and fixed issues
* Given training about the application to the client.

**Environment**: Core Java 1.6, J2EE, Spring 3.0 MVC, JDBC, Hibernate, JSP, JSTL, MySQL 5.0

**Leapfrog Technology, India Jun 2015 – Aug 2017  
Software Engineer**

**Responsibilities**:

* Development and maintenance of the website.
* Developed **EJB** **Session** Beans in implementing business logic and transactions
* Developed critical components of the application including spring forms, **spring** controllers, **JSP** views, and business logic and data logic components that include **Hibernate** Entities, **Spring-Hibernate** **DAO** and Spring models following **MVC** architecture.
* Preparation of requirement and audit documents for all the changes done
* Developed reports on the using oracle database queries on demand when customer asks for it
* Impact analysis of the code when a change is made
* Migrated the database from **Oracle** to **POSTGRESQL** and changed all the **JDBC** queries in the project
* UI enhancements and trained new recruits for the team.

**Environment**: Core Java 1.6, J2EE, Spring 3.0 MVC, JDBC, Hibernate, JSP, JSTL, MySQL 5.0.

**EDUCATION**:

* Master of Science in Computer Science from Arkansas State University-2020
* Bachelor’s in Electronics and Communications Engineering from Vignana Bharathi Institute of Technologies, Hyderabad India-2015