

Sumana K

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Professional Summary:

- ✓ Over 9 years of experience as a Full Stack Developer in designing and developing **Java/J2EE** Client and Server-side Enterprise Applications using object-oriented methodologies, enterprise technologies, frameworks, and design patterns.
- ✓ Utilized **AngularJS, Angular 8/9, ReactJS, jQuery, HTML5, CSS3, PrimeNG, TypeScript, and Angular CLI** to develop dynamic, secure, and scalable frontend interfaces.
- ✓ Ensured cross-browser compatibility and seamless user experience on multiple platforms, including Windows, macOS, Linux, and mobile devices.
- ✓ Conducted thorough testing to identify and resolve platform-specific issues, ensuring consistent functionality and appearance.
- ✓ Designed and implemented backend services and microservices using **Java, Spring Boot, Spring Security, Spring Core, Spring MVC, Spring AOP, Spring ORM, Spring JPA, and Spring REST**.
- ✓ Experience in working with **API's (SSL, CORS, JWT), API Gateway, REST and SOAP Web Services** using **Ajax, JSON**
- ✓ Applied design patterns such as **DAO, Singleton, Factory, Observer, DTO, and Builder** to enhance application architecture and design.
- ✓ Integrated message brokers like **ActiveMQ, RabbitMQ, and Apache Kafka** into the application architecture to facilitate asynchronous communication between microservices and ensure reliable message delivery.
- ✓ Implemented performance optimizations such as **lazy loading, caching, and batch processing** to handle large datasets efficiently.
- ✓ Designed **ORM layers** with Hibernate to map Java objects to database tables, enabling efficient data retrieval and persistence.
- ✓ Worked with **RDBMS** such as **Microsoft SQL Server, Oracle, MySQL, PostgreSQL, Aurora, and DB2**, along with NoSQL databases such as **MongoDB, Cassandra, and DynamoDB**.
- ✓ Designed and developed a module to publish claim files to an AWS S3 bucket using AWS Java SDK, created microservices with **AWS Lambda** functions and Node.js, and exposed them via AWS Gateway API.
- ✓ Designed and deployed **Docker Spring Boot** microservices with optimized container images using multi-stage builds, configured **CI/CD pipelines** with Jenkins and AWS tools, and automated deployment to **AWS EC2** container services for efficient and secure delivery.
- ✓ Managed, monitored, and secured cloud applications using AWS services like **EC2, S3, RDS, SQS, IAM, and CloudWatch**.
- ✓ Implemented caching strategies and security best practices, such as running containers as non-root users, to improve performance and ensure secure deployments.
- ✓ Utilized Apache Mesos and **Kubernetes** to deploy and manage microservices efficiently, leveraging **Docker Containers, Linux Containers, and AMIs** to create lightweight, secure, and scalable containerized applications.
- ✓ Experience in using Core technologies like **Java, Servlets, JSP, Custom tags, Spring Boot, JDBC, Microservice, Java Beans, EJB, JavaScript, Web Services, Angular8/9, jQuery, MVC, Struts, Spring**
- ✓ Conducted thorough testing across multiple browsers (**Chrome, Firefox, Safari, Edge**) and

platforms (**Windows, macOS, Linux, mobile devices**) to ensure consistent functionality, appearance, identifying and resolving platform-specific issues.

- ✓ Implemented **OAuth2.0** for authentication-based web application and accessed their **APIs** for fetching data services.
- ✓ Experience in writing **ANT, Gradle, Maven and Jenkins** build scripts, writing unit test cases using **JUnit, Mockito, EasyMock, TestNG** and used **Log4j, Slf4j, Log Insight** for bug tracking.
- ✓ Used **Cucumber** for services automation and created the Feature Files for Cucumber Automation.

Technical Skills:

Programming Languages	Java (J2SE, J2EE), Python, C, C++, Scala, PL/SQL
Java/J2EE Technologies	Java 11/17, JSP, JSF, JMS, JDBC, EJB, Log4J, Servlets, Hibernate, Node.js, Spring Boot, Spring Framework, Microservices
Databases	Oracle(11g+), SQL Server, MySQL, PostgreSQL, MongoDB, DynamoDB, Amazon RDS
IDE Tools	IntelliJ, Eclipse, NetBeans, RAD
Front End Web Technologies	JavaScript, Servlet, HTML5, DHTML, ReactJS, Angular9/10/11/12, CSS3, AngularJS, Bootstrap, jQuery, XML, AJAX, JSON, YAML
Web Services	Web Services (SOAP and RESTful APIs), GraphQL, XSD, WSDL, Apache Axis
Reporting/Messaging Tools	Kafka, RabbitMQ, ActiveMQ, Crystal Reports, BO XI R3
Version Controls	CVS, Git, SVN, Clear case
Build Tools	Maven, Ant, Gradle
Testing	JUnit, Mockito, EasyMock, Selenium, Karma, Jasmine, Mocha, Chai, JMeter, Cucumber
Web Servers	Web Logic, Apache Tomcat, JBoss, Web Sphere
Cloud Technologies	AWS: EC2, S3, ELB, DNS & IAM, VPC, Auto-Scaling, CloudWatch, Lambda, API Gateway, GCP
DevOps/Monitoring Tools	Jenkins (CI/CD), Chef Docker, Kubernetes (Orchestration), Splunk, Nagios, Terraform, CloudFormation
Monitoring & Logging Tools	Splunk, ELK Stack (Elasticsearch, Logstash, Kibana), Prometheus, Grafana, SonarQube, Nagios
Operating Systems	Windows, Linux, UNIX, IOS.
Documentation	UML
Development Methodology	Agile SCRUM, Waterfall, TDD, Kanban

Work History:

Role: Senior Java Full Stack Developer

April 2023 to Current

Client: CNO Financial Group – Carmel, IN

Responsibilities

- ✓ Lead the architectural design of cloud-native microservices, ensuring scalable, maintainable, and efficient solutions using **Java 11 and Spring Boot**.
- ✓ Worked in complete Software Development Life Cycle including Requirement Analysis, Design, Implementation, Testing and Maintenance.
- ✓ Designed application modules, base classes and utility classes using core java, spring dependency injections, annotations, and configuration files.
- ✓ Designed and implemented integration solutions using **Apache Camel** for efficient message routing and mediation across systems, ensuring seamless data flow between applications.
- ✓ Applied **TDD** principles to write unit tests in JavaScript, ensuring high-quality, maintainable, and bug-free code with thorough test coverage and reliable functionality.
- ✓ Ran Log aggregations, website Activity tracking and commit log for distributed system using **Apache Kafka**
- ✓ Analyzed **Node.JS** server structure in legacy project, then mimicked REST service by using **Java JAX-WS API**, and did corresponding configurations.
- ✓ Experience in applying JMS (Java Messaging Service) for reliable information exchange across Java applications using **Apache Kafka, RabbitMQ, ActiveMQ** and **IBM MQ** to communicate from Client to Server.
- ✓ Created plug ins for in-house data ingestion framework to extract data from multiple sources like **Apache Kafka, Database, file systems and Messaging Queues**.
- ✓ Worked with java libraries to access AWS facilities such as Simple Storage service, Simple queue and Simple DB
- ✓ Implemented functionalities using spring modules such as Spring MVC, Spring Boot, Spring JDBC, Spring Rest, Spring Core
- ✓ Built **Angular 9** components, UI services to consume rest services using Component based architecture provided by Angular 9
- ✓ Identifying and fixing browser performance-related issues in application along with production deployment and validation support
- ✓ Worked on **AWS** for continuous integration of files to UI and worked for backend development using **Node.js and Mongo DB**
- ✓ Developed powerful Single Page Application and dynamic responsive Web Application with **Angular 12**
- ✓ Used **Git** to maintain versions of files and took responsibility to do code mergers and create a new branch when new feature implementation starts
- ✓ Developed integration techniques using the **Apache camel** and Apache **Active MQ** technologies and **Apache Kafka**.
- ✓ Implemented Lazy Loading for AngularJS components and React.js routes, significantly reducing initial load times and improving user experience.
- ✓ Involved to implement various screens for the front end using React.js and used various predefined components from NPM (Node Package Manager) and redux library.
- ✓ Worked with Amazon Web services to build secure, reliable, and scalable JavaScript applications.
- ✓ Developed code for Responsive web design in **JavaScript** using frameworks like **Angular.js**
- ✓ Developed views using **Bootstrap components, Angular-UI** and involved in configuring routing for various modules using angular UI router.

- ✓ Developed **CI/CD** solutions for running an AngularJS application from a Tomcat container using Jenkins and Sonatype Nexus
- ✓ Used **Spring Core** Annotations for **Dependency Injection** and used **Apache Camel** to integrate spring framework.
- ✓ Used React JS as frontend framework and client-side validation for future screens
- ✓ Integrated the Java code (**API**) into **JSP** pages and responsible for setting up **AngularJS framework** for UI development.
- ✓ Used Jackson for conversion of Object to **JSON** and JSON to Object in process of developing REST web services
- ✓ Utilized **AWSEC2** to deploy Docker containers and Maintained Traffic using **AWS Elastic Load Balancers**
- ✓ Wrote SQL queries using spring JDBC template to interact with relational databases like **Postgres SQL, SQL Server, Oracle and DB2**
- ✓ Worked in an agile environment and participated in daily scrums, story refinement sessions, and sprint planning and retro meetings
- ✓ Migrated **Cassandra** cluster from one AWS account to another **AWS** account by using Cloud Formation Templates in **JSON**
- ✓ Configured and managed **Log4J** for detailed logging across the application, analyzing logs to diagnose and resolve issues, monitor performance and track errors to ensure smooth operation and optimize efficiency.
- ✓ Developed java code to deliver functional and testable pieces of software as per requirements
- ✓ Utilized **Kubernetes** and **Docker** for runtime environment of **CI/CD** system to build, test, deploy
- ✓ Implemented an express-graphql library to mount a Graph **QL API** server on the user-configured HTTP endpoint.
- ✓ Developed detailed mockups, prototypes, and wireframes to illustrate interface and design concepts of website using Microsoft Visio
- ✓ Designed and developed restful web services using spring rest to produce and consume **JSON** data
- ✓ Involved in developing **JSP pages** for the web tier and validating the client data using JavaScript.
- ✓ Developed page layouts, Navigations and presented designs and concepts to clients and management review
- ✓ Maintain **AWS sub accounts** and upgrade them with the latest versions of docker images from **AWS ECR**

Environment: Java 11, J2EE, Restful-web services, Spring Boot, JavaScript, Node.js, Angular 9/10/11/12, Agile, Kafka, Bootstrap, NPM, Camunda, JSON, Oracle, PostgreSQL, WebLogic, Windows, AWS

Role: Senior Java Full Stack Developer

Nov 2021 to Mar 2023

Client: Cencora – Conshohocken, PA

Responsibilities

- ✓ Responsible for system analysis, design and development using **Java J2EE** architecture
- ✓ Configured routes in Apache Camel using Blueprint xml for routing messages between end points.
- ✓ Proficient in writing **Kafka** producers to stream data from external rest **APIs to Kafka topics**
- ✓ Implemented stable **React** components and stand-alone functions to be added to any future pages
- ✓ Added Excel-Building to download Tabular data in Excel Format using React
- ✓ Pushed image to Docker Trusted Registry (**DTR**) is enterprise-grade image storage solution from Docker
- ✓ Created pipeline from **Mongo DB** cluster by configuring Mongoose Connector, to sync with multiple sources like Elastic Search or another Mongo DB
- ✓ Worked in using **React.js Router, Forms, Animations, Keys, components, Events and Flux concept**
- ✓ Enhanced user experience by designing new web features using **MVC Framework** like **Express.js**,

Require.js, React.js and Node.js

- ✓ Integrated and optimized **UI** components (**Tree, Table Grid, Slide-View**) and developed a reusable component library to ensure consistent, scalable, and efficient UI development with seamless backend integration.
- ✓ Utilized **AWS EC2** to deploy Docker containers with both monolith and Microservices Architecture
Created image and Amazon workspace in AWS cloud by using **AWS SDK** through Java for providing Virtual Desktop Images (VDI) to users
- ✓ Created java program by using AWS SDK to make daily back up of **Amazon EC2** Instance volumes
- ✓ Implemented a recursive algorithm to parse large Graph QL introspection queries into a dot file format to visualize the one-to-many relations between schemas in a SVG format.
- ✓ Having good implementation experience with installation and configuration of **Kubernetes**, clustering them, and managing local deployments in Kubernetes
- ✓ Setting up the cluster environment for **WebLogic Server** integrated with multiple workflows.
- ✓ Experience in Docker Engine and Docker Machine environment, to deploy micro services-oriented environments for scalable application.
- ✓ Created unit tests using **JUnit** to verify the core business logic and operations within the Order Details service, using **Mockito** to mock external dependencies like **databases, APIs**, or other services, enabling isolated testing of the service's functionality in various scenarios.
- ✓ Experience with Workflow management Batch processing and Asynchronous processing using **JMS IBM MQ Series**
- ✓ Maintain and customize **JavaScript (and ActionScript)** frameworks to tailor applications to suit client needs
- ✓ Used **Express.js** which is an assertive, fast, essential, and moderate web framework of Node.js that helps manage server and routes Work with JavaScript for client/browser statistics reporting, click tracking, form validation, Ajax, and pop ups like date picker etc.
- ✓ Developed **REST API** services using Node JS, Express JS, Body-Parse, and other node modules to serve web application with JSON data
- ✓ Used multi-tiered Java design and coding utilizing Spring Inversion of Control (IOC), spring boot and spring security
- ✓ Developed readable and writable streams of **Node JS** to process data from external means of application
- ✓ Moving existing monolithic architecture to micro services and migrating them to AWS cloud
- ✓ Implemented modular approaches for backend on AWS's Elastic Beanstalk and implemented interfacing with **MySQL/Aurora DB on AWS's RDS**, allowing for scalability
- ✓ Develop integration techniques using Apache camel and Apache Active MQ technologies and experience using Fuse/ Apache Kafka as integration platform.
- ✓ Hands on experience in working with **Kubernetes** for managing related, distributed cluster components
Transitioned AWS infrastructure from Elastic Beanstalk to Docker with Kubernetes, set up Kafka on Linux, and integrated build tools like **Bower, NPM**, and Grunt for streamlined **CI/CD** processes.
- ✓ Configured plug-ins for **Apache HTTP server** and Sun One Web server to proxy the request for WebLogic server
- ✓ Used **AWS Services** platform to upload data into **AWSS3** buckets and create **EC2** instances
- ✓ Implemented various functionalities using spring IO/spring boot and hibernate **ORM**
- ✓ Developed dashboard based on **Ajax** calls with Business Customers Count, Flags, Real-time graphs for Analytical Reporting using **Node.js**
- ✓ Used spring core annotations for dependency injection and utilized spring boot for developing micro services and spring batch for batch processing

Environment: Java, J2EE, Restful Web Services, AWS, Oracle, GIT, Hibernate, Spring-MVC, Spring-REST, Soap UI, Camunda, PL/SQL, JSON, jQuery, JavaScript, React JS, Maven, JBoss, Tomcat, Windows.

Role: Java Full Stack Developer

Aug 2020 to Oct 2021

Client: Frontier Communications – Norwalk, CT

Responsibilities

- ✓ Worked with Agile software lifecycle methodologies and involved to perform coding, debugging, and testing
- ✓ Extensively did client-side validations using **UI** Architecture design using **Angular and React** components
- ✓ Developed pages using Angular directives, expressions, routing capabilities for bookmarking, filters, validations, and Angular UI components such as **grid, buttons, carousels, date pickers, modal dialogs** and other input components
- ✓ Have worked with reactive forms, template driven forms and written pipes in Angular to transform data according to client's requirement and need and met desired requirements
- ✓ Configured and administered **JDBC** Connection pools/multi pools/ data sources on WebLogic
- ✓ Intermediate experience with Advanced **JavaScript** including prototype-based inheritance, **AJAX, JSON** and familiar with JavaScript frameworks such as, **jQuery and jQuery-UI**.
- ✓ Created custom directives in **Angular** for reusable components like multi-field form elements and background file uploads in application to restore components
- ✓ Created services with Angular injectable property, to make service available for dependency injection when creating components and modules according to client's requirement.
- ✓ Developed User Interface for internal applications using **JAVA, HTML, CSS, JavaScript, Typescript, Angular, React.js, Node.js JSON, DOM**, with experience in software development life cycle
- ✓ Developed an **Angular JS** workflow manager leveraging Angular-UI's state router for flexible configuration and management of multi-step user input flows.
- ✓ Exposure to **Microservices** architecture using Spring Boot and **Spring Microservices**
- ✓ Responsible for implementing business requirements using **Spring Boot, Spring Data and Spring Security**
- ✓ Implemented application using **Spring Boot** and handled **authentication, authorization**, and access-control features by using **Spring Security**
- ✓ Implemented Injectable services to connect web application to back-end **APIs** to **POST/GET** data used in application
- ✓ Creating **JSON** deployment templates for provisioning virtual networks, subnets, VM Scale Sets, Load balancers and **NAT** rules
- ✓ Experience in handling Cross browser/cross domain Issues and in web Accessibility Concepts
- ✓ Involved in Designing Market Interface (MI) Flow using Hibernate Framework for Object Relational Mappings and Spring Framework for Dependency Injection
- ✓ Managed the deployment of **WAR, JAR, and EAR** files in WebLogic environments, configuring the server, troubleshooting issues, and integrating deployment into **CI/CD** pipelines for optimized application delivery.
- ✓ Created Portals, worked on Portal management, content management along with user and group management on **WebLogic servers**.
- ✓ Experience with **Cloud APIs** covering software defined **IaaS technologies, Cloud native** automation tools and **PaaS**
- ✓ Participated in Software Development Lifecycle (**SDLC**) and preparing Requirement Specification documents, design documents, Test cases and Analysis, User Training documents and Technical Help documents

- ✓ Working on UI development processes such as Analysis, Development and Testing and Associated Methodologies
- ✓ Worked on using **React JS** components, Forms, Events, Keys, Router, Animations and Redux concept
- ✓ Using web interface developed front-end featuring rich using **HTML** features like **CSS**, Content Editable, placeholders, different features like Advanced Selectors, Box sizing, multiple backgrounds
- ✓ Expertise in migration and upgradation of WebLogic Server and updating **JDK versions**, applying patches and installing service packs for WebLogic server.
- ✓ Integrated Spring Controllers with **AngularJS** for routing, implemented **JSON**-based data transfer, secured the application with **Angular**, **OAuth 2.0**, **Spring Boot**, and **JWT**, and conducted unit testing using **Karma and Jasmine**.
- ✓ **SSO** has been implemented with **Spring boot**, **Angular** for third party application redirection
- ✓ Used **Maven** as build tool and deployed application using **Kafka**
- ✓ Extensively used source code control systems such as **GIT** and **JIRA**

Environment: Java, HTML, CSS, SASS, JavaScript, Typescript, Angular, ReactJS, Node.JS, Web Services, Bootstrap, Rally, Visual Studio Code, PostgreSQL, Postman, Bit bucket, Agile, Git, Chrome and Atlassian tools like JIRA, Confluence.

Role: Java /J2EE Developer

Jun 2016 to Dec 2019

Client: Adroitent – India

Responsibilities

- ✓ Involved in design of application using **UML** and designed application as per **Object Oriented (OO)** concepts
- ✓ Creation of database objects like Tables, Views, Procedures, Packages using **Oracle PL/SQL**
- ✓ Configured and managed WebLogic server environments for development and production, setting up resources such as data sources, **JMS**, and security configurations.
- ✓ Deployed Java-based applications (**WAR, JAR, EAR**) on WebLogic, ensuring seamless integration with backend services and consistent performance across environments.
- ✓ Implemented Model-View-Controller (**MVC**) architecture using the Spring Framework to separate concerns, integrating Spring MVC controllers, services, and views for efficient, scalable, and maintainable application flow.
- ✓ Configured **log4j** in all modules of application to log debug, error, info messages to monitor application behavior
- ✓ Utilized **Spring IOC** and Dependency Injection to manage object creation and dependencies, ensuring loose coupling, modularity, and improved maintainability while optimizing configuration and flexibility in the application.
- ✓ Involved in **documenting sequence diagrams, class diagrams** and **Technical Design Documents**
- ✓ Produced client-side validation through **JavaScript** and **Ajax** for asynchronous communication.
- ✓ Developed various Angular 2/4 components, services, and modules to implement features of application
- ✓ Developed Web pages using **Angular JS, JavaScript, HTML5, AJAX, CSS3**, and **XSLT** to create user interface views
- ✓ Used **Angular 2/4** http service for server communication and seamless user experience
- ✓ Worked on AWS, High Availability Practices and deploying backup/restoring infrastructure
- ✓ Deployed application on AWS using Oracle WebLogic Cluster in **Amazon EC2**
- ✓ Implemented Kafka producer and consumer applications with help of zookeeper and retrieved log messages using Kafka
- ✓ Developed data transformer for converting legacy data from Source tables to Avro format and fed into **Kafka using Camel**

- ✓ Developed the prototype and UI of the application using **HTML, JSP, Servlets, JavaScript, and CSS**, ensuring functional and visually appealing front-end designs.
- ✓ Experience working with Amazon Web Services like **EC2, S3 bucket, RDS, SQS, Elastic Load Balancer**, Dynamo DB, through AWS Console and API Integration
- ✓ Experienced in Docker engine and Docker Machine environments, to deploy micro services-oriented environments for scalable applications
- ✓ Created **XML schemas, templates, and XSL** for data validation and transformation, developed SOAP-based WebServices with WS-Security for secure communication, ensuring seamless integration and data protection across systems.

Environment: Core Java, J2EE, jQuery, Servlets, JDK, JDBC, HTML, JavaScript, JSP, XML, Linux, Ant, Log4j, Spring MVC, WebLogic, CSS3, Oracle, PL/SQL Developer, Eclipse.

Role: Java Developer

July 2014 to May 2016

Client: Lexmark Software Solutions – India

Responsibilities

- ✓ Created Interactive User-Interface using **Angular 2, Bootstrap3, HTML and CSS**
- ✓ Developed AngularJS functionality in application to provide two-way binding to system
- ✓ Utilized **OOP** concepts such as multithreading, concurrency, inheritance, and abstraction in development to create modular, efficient, and scalable applications.
- ✓ Writing and retrieving files to and from AWS for UI to render data faster that involves complex and time-consuming server-side logic
- ✓ Experience of Kafka to build real time data and streaming apps in distributed environment
- ✓ Worked on AWS, High Availability Practices and deploying backup/restoring infrastructure
- ✓ Implemented Kafka security features using SSL and without **Kerberos**
- ✓ Responsible for creating **DAO CRUD** methods using Hibernate & Spring framework
- ✓ Wrote **HQL** queries using Hibernate APIs for efficient database interaction and developed Kafka producers to stream data from external **REST APIs** to **Kafka** topics for real-time data processing and integration.
- ✓ Implemented reverse engineering in Hibernate to create beans schema in database
- ✓ Strong Understanding in Docker and Kubernetes to deploy applications quickly and set up CI/CD pipeline
- ✓ Developed persistence layer using **JPA, Hibernate Framework** created **POJO** objects and mapped using Hibernate annotations
- ✓ Used **SVN** version controlling to maintain project versions, ensuring code consistency and effective collaboration among team members.
- ✓ Configured Dispatcher Servlet and View Resolver to intercept incoming requests, manage Spring **MVC** flow and invoke view components with help of Dispatcher Servlet
- ✓ Developed internal application using Angular and Node.js connecting to **Mongo DB** on Backend
- ✓ Conducted system analysis to align solutions with business needs and applied various testing techniques, including unit, integration, and system testing, to ensure high-quality, reliable software.
- ✓ Involved in designing **Spring MVC** application and hibernate to design module structure
- ✓ Developed Data layer using Hibernate framework, configured **XML** mapping files

Environment: Core Java, Data Structures, spring, Hibernate, MYSQL, Tomcat, HTML, Eclipse, Junit, Maven

Education: Bachelor's in computer science from Kamala Institute of Technology and Science.