

Sanjeev Chapagain

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Professional Summary

Around 8 years of experience in analysis, design, implementation, and testing of Object-Oriented Applications in Client/Server environments using Java/J2EE and UI technology stacks.

- Expertise in design and development of various web and enterprise-level applications using Java/J2EE technologies. Developed applications using latest technologies like Spring Boot, Hibernate and REST based Web services.
- Experience in working with Service Oriented Architecture that includes (UDDI) lookups & (WSDL) using SOAP. Experienced with event-driven and scheduled AWS Lambda functions to trigger various AWS resources. Application assessment and maintenance of Microservices architecture applications using Spring Boot and Restful Web Services. Involved in development of test environments on Docker containers and configuring the Docker containers using Kubernetes.
- Proficient in using AWS and extensive experience focusing on services like EC2, EKS, RDS, Cloud Watch, Cloud Formation, S3. Worked on different frontend applications with Angular 2+ and recently worked on Angular 13. Experienced in developing Web UI Applications using HTML5, CSS3, Bootstrap, JavaScript, Typescript, Ajax, jQuery, Angular.js, React.js, Express.js, Node JS, and Spring MVC. Strong knowledge on working with GraphQL schema, queries, and mutations to interact with MongoDB and several other data layers.
- Expertise in DAOs (Data Access Object) using Hibernate as ORM to interact with DBMS - like MySQL, PostgreSQL, SQL/PL-SQL Oracle, and NoSQL databases like MongoDB.

Education: Bachelor's in computer science, Texas A&M university at Commerce, 2016

TECHNICAL SKILLS

J2SE Technology	: Multithreading, Reflections, Collections, Serialization, Networking, Beans
Middleware Technology	: JMS, MQ Messaging, Active MQ
J2EE Technology	: Servlets, JSP, Tag Libraries, JDBC, JNDI
Architecture & Framework	: MVC, Struts, Spring, Hibernate, Angular JS, EXT JS (MVVM).
Database	: Oracle 10g, 11g, SQL server 2005/2008, MySQL, Mark Logic, MongoDB.
IDE	: Eclipse, My Eclipse, NetBeans, Spring Tool Suite.
Operating Systems	: Windows 9x/NT/XP/2003/7/8, Linux, UNIX
Web/App Servers	: WebLogic, Web Sphere, Tomcat, JBoss, Apache
GUI	: HTML5, XML, XSD, AJAX, JavaScript, Node.js, ReactJS, Angular JS, jQuery, CSS3
Query Languages	: SQL, PL/SQL
BPMN Tools	: Camunda BPM, DMN
Programming Language	: C, C++, Java, J2EE
Script	: PHP, Shell
Design patterns	: MVC3, Business Delegate, Business Object, Value Object, Front Controller
Tools	: Maven, ANT, Gradle, Log4J, JUnit, TOAD, SoapUI 4.0.5, JUnit,

PROFESSIONAL EXPERIENCE

Bank of America : Plano, TX
Java Full Stack Developer

Oct 2023-April 2025

- Directed the development of resilient backend modules using Java, Spring, Spring Boot, JPA, and Hibernate, while adhering to object-oriented principles and test-driven development (TDD) to ensure code reliability and scalability.
- Designed and implemented stateless microservices architecture using Spring Cloud, Netflix Eureka, and Apache Kafka to support real-time financial transaction streaming and event-driven communication.
- Created and maintained SOAP and RESTful APIs for key banking functionalities such as customer onboarding, account servicing, and payment processing, ensuring seamless integration across systems.
- Integrated enterprise applications with Oracle, PostgreSQL, and MongoDB databases, writing optimized SQL queries, and managing database migrations using Liquibase.
- Maintained secure access across services by implementing JWT-based authentication and OAuth2 protocols, ensuring compliance with PII protection standards and internal security guidelines.
- Built dynamic and reusable front-end components using React.js, and traditional Java-based UI technologies including JSP, JSTL, Servlets, HTML, and CSS for responsive web interfaces.

- Developed and managed containerized applications with Docker, and orchestrated deployments in Kubernetes clusters within hybrid cloud environments for better scalability and resilience.
- Automated build and release processes using tools like Jenkins, GitHub, Bitbucket, and Azure DevOps, establishing robust CI/CD pipelines for continuous integration and delivery.
- Deployed backend services on application servers such as Apache Tomcat, JBoss, and Kotka, integrating load balancers and messaging systems for distributed load handling.
- Utilized tools like Postman for API testing and validation, and integrated Redis as a caching layer to enhance system responsiveness and reduce latency.
- Contributed to the modernization of legacy systems by migrating from a monolithic architecture to a microservices-based design, significantly improving system modularity and deployment speed.
- Employed Terraform for provisioning infrastructure across multiple environments, enabling consistent and version-controlled infrastructure as code.
- Applied multithreading and concurrency control strategies to manage parallel processing and maintain application responsiveness under high-throughput conditions.
- Actively participated in Agile ceremonies, utilized JIRA for sprint planning and issue tracking, and collaborated closely with QA teams throughout the SDLC.
- Conducted thorough code reviews, upheld clean coding practices, and mentored junior developers, leveraging tools like Git, GitHub, to enhance productivity and collaboration.

Environment: Java, Spring Boot, Spring Cloud, React.js, HTML5, CSS3, JavaScript, Jenkins, GitHub, Postman, Curl, GitHub Copilot, Apache Kafka, RESTful Web Services, OAuth2, JWT, JUnit, Mockito, Jest, MySQL, Oracle, Liquibase, Shield Design System, Redux.

Hayden Data System, Grand Junction, CO

Apr 2021-Sept 2023

Full stack Java Developer

- Assisted to the development of an application designed to receive checks from customers, process and store their details, and route them to the appropriate department for further handling. Played a dual role with 60% focus on backend development and 40% on frontend tasks. Designed, analysed, and developed the front-end and back-end Servlets, Bootstrap for designing, HTML5, CSS3, Ajax, Angular JS, ReactJS for developing presentation layer.
- Involved in developing and delivery of a Microservice application with AWS Stack including EC2, DynamoDB, Kinesis, SNS and SQS.
- Designed and implemented user interface for web-based customer applications using HTML5, CSS3, Typescript, JSON, AJAX, and Angular Version 13.
- Developed various presentation layer using struts tags libraries like logic, html, bean, etc in JSP pages.
- Implemented development procedures through Java and Web Services and used AWS lambda to run servers without managing them and to trigger to run code by S3 and SNS.
- Used Gradle for build framework and Jenkins for continuous build system.
- Actively participated in Requirement Analysis and Documentation as per SDLC methodologies using Agile model.
- Created complex CAMUNDA workflows to trigger REST APIs and validate responses in automation process as well as designed and implemented CAMUNDA 8 workflows to automate EDA communication process for resource maintenance in cloud environment.
- Identified and created indexes, mappings and data in Elastic search and used Elastic Search REST API's both single and multi-document API's.
- Worked with Spark with Scala to process each record and extract the meaningful data to convert the old structure to the new structure format and used Amazon Kinesis for streaming the data.
- Designed, configured, and managed public/private cloud infrastructures using Amazon Web Services (AWS), which includes VPC, EC2, S3, CloudFront, ELB and Elastic Beanstalk.
- Build application and database servers using AWS EC2 and create AMIs also using RDS for Oracle DB.
- Created Typescript components and services to consume REST API's using Component-based architecture provided by Angular V13.
- Created database tables in Oracle and Teradata created required SQL queries.
- Developed the Docker based micro services deployment modules with the Jenkins, Kubernetes, and Ansible based pipelines/frameworks.
- Designed use cases for the Application as per the business requirements and Integrated data in Kafka with Spark using Spark Streaming API.
- Worked with AWS API Gateway for implementing the Microservice architecture and the utilized ECS to deploy the Docker containers onto the servers.
- Defined AWS Security Groups which acted as virtual firewalls that controlled the traffic allowed to reach one or more AWS EC2 instances and Used JIRA for Project Management and Issue Tracking.
- Used AWS API Gateway for providing RESTful APIs for the web application to access AWS services.
- Involved in Agile Software Development and Scrum technology.
- Implemented the associated business modules integration using Spring Boot and Spring Data MongoDB, Spring Data JPA and Developed single page applications using, Vue.js, Typescript, web pack and grunt and involved in designing and creating the Database Tables using PostgreSQL Database.
- Involved in Implementing Microservices architecture with the help of RESTFUL APIs and OAuth2.
- Spring Boot services were developed using micro service architecture with RESTFUL and Apache Kafka.
- Worked in using ReactJS components, Forms, Events, Keys, Router, Animations and Flux concept .
- Used Java Message Service (JMS) API to create, send, receive, and read messages.
- Developed views using Bootstrap components, Angular 8-UI and involved in configuring routing for various modules using angular UI router.

- Actively participate in code review and code walkthrough and QA processes Document project Updates as needed.
- Created Amazon Machine Images (AMI's) of EC2 Instance for snapshots and created clone's instances for their application elsewhere.
- Implemented REST based web services using JAX-RS annotations, Jersey provider and consumed using HTTP services from Angular 8 modules.
- Involved in development of test environments on Docker containers and configuring the Docker containers using Kubernetes.
- Implementing the Micro services to base on RESTful API utilizing Spring Boot with Spring MVC.
- Used React JS to create views to hook up models and synchronize data with server as a Single Page Application (SPA) and Created GraphQL schema and queries to interact with MongoDB database.
- Migrated on-prem database and deployments to AWS DynamoDB and EC2 respectively and used to configure the ELB for balancing the load on the servers.
- Developed a code for Web services using XML, SOAP and used SOAPUI tool for testing the services proficient in testing Web Pages functionalities and raising defects.
- Developed prototypes for the future design (POCs) based on AngularJS and TypeScript.
- Handled the authorization, authentication of features by using Spring Security.
- Involved in automation of Service assurance and service delivery processes using Camunda BPM.
- Written JUNIT test cases for unit testing and GIT for version control
- Done the design, development and testing phases of Software Development using AGILE methodology and Test-Driven Development (TDD).
- Implement a product-level cloud-based architecture in Amazon Web Services (AWS).

Environment: Java, J2EE, HTML5, CSS3, jQuery, Ajax, Angular-JS, Bootstrap, JSON, J2EE, Spring MVC, Micro Services, AWS, Camunda BPM, Camunda DMN, Spring Security, Spring Boot, Spring JDBC, Spring ORM, JSP, Hibernate, Restful, WebSphere, log4j, Agile/Scrum Methodology, Maven, JIRA, TDD, Jenkins, Gradle, GIT, JUnit, Eclipse.

First Republic Bank, San Francisco, CA

March 2018-March 2021

Full stack Java Developer

- Involved in the SDLC phases to analyse the requirements, design, development, deployment & testing of the application based on Java/J2EE technologies and Design Pattern.
- Developed web application using MongoDB, Express, React / Redux, Node JS and GraphQL.
- Implemented the Object-Oriented Programming Concepts for validating the columns of the import file.
- Played an important role in writing the JUnit test case scenarios for all the validations.
- Responsible for creating Restful Web Services, also used SOAP UI to test the existing services.
- Involved in Splunk development (creating apps, dashboards, data models, etc.
- Involved in the development of front end of the application using Python 2.7, Unix/Linux, HTML5, CSS3, Ember.JS, Typescript, AJAX, JSON, and jQuery and worked on backend of the application, mainly using Active Records.
- Developed AWS Lambda based Microservices interacting with DynamoDB & SNS/SQS using AWS-SD
- Jointly worked with Backend teams on the implementation of the backend server app. worked with NodeJS, Express, GraphQL, Redis and used AWS Cloud platform and its features which includes EC2, AWS Cognito.
- Used Jenkins pipelines to drive all microservices builds out to the Docker registry and then deployed to Kubernetes by Created Pods and managed using Kubernetes.
- Created indexes, stored, and retrieved documents in NoSQL database Elastic search using queryDSL. Performed full text search using Elastic Search.
- Integrated third-party APIs and services, such as court scheduling systems or electronic filing systems, to streamline data exchange and improve system interoperability.
- Used Kafka and Spark as well for streaming data handling and report generation too.
- Developed server-side APIs under Node.JS runtime environment with Express.js framework as back-end server and using Node.JS to implement Microservice.
- Designed GraphQL to build client applications by providing an intuitive and flexible syntax and system for describing their data requirements and interactions.
- Implement the JavaScript/jQuery frameworks such as React.js, Node.js for MVW/MVC framework.
- Build SOAP Web Services based on AWS (Amazon Web Services).
- Created and deployed new features to sustain and amend existing applications under MVC pattern using NodeJS, Bootstrap and ExpressJS and Wrote many shell scripts in Unix to call routines.
- Developed API for using AWS Lambda to manage the servers and run the code in AWS, and Deploy necessary configs, wars, and jars to AWS S3 buckets and managed versioning.
- Followed Agile Scrum methodology and used TDD for writing test cases.
- Developed the Frontend by using AngularJS and JavaScript and good knowledge of Angular8/11 and Written test scripts for the components developed using ReactJS.
- Build Services using AWS, importing Volumes, launching EC2, RDS, Creating security groups, auto-scaling, load balancer (ELB's) in the defined virtual private connection.
- Developed a SPA (single page application) project using newer versions of Angular and Typescript for frontend, NodeJS and Postgres for backend and Used GIT as a version control system.
- Worked on an application which is developed entirely on Mean Stack with deployment on node.js, MongoDB, Express, and React.js based on the MVVM design pattern.
- Responsible for building a MEAN stack app with an Angular 8 and Implemented HTTP requests using RXJS Observable library to handle multiple values over time.

- Skilled using Angular Material, bootstrap along with font-awesome to do view design and template functions such as icons, buttons, pagination, and models.
- Involved in logging and monitoring the step functions like Lambda functions and used lambda functions, wrote Step functions, configured scheduler to trigger lambdas.
- Application is implemented using agile methodology where there is a daily SCRUM (KANBAN) meeting to understand the status and resolve any issues.
- Used Spring Security for Authentication and Authorization of the application.
- Involved in Scheduling, deployed and managed container replicas onto a node cluster using Kubernetes.
- Created data model and generated Hibernate mappings and domain objects using Hibernate tools.
- Extensively used Hibernate named queries, criteria queries, Hibernate Query Language (HQL) and Optimistic Locking and Caching to process the data from the database.
- Worked with Apache Tomcat application server that handles various requests from Client.
- Deployed fixes and updates using WebLogic application server and involved in testing the applicable code using Junit also used Maven tools for building and deploying the Web applications.

Environment: Java, Core Java, Java API, Angular, Apache Tomcat, Maven, Spring, Hibernate, Web logic, JBoss, Eclipse IDE, REST, SOAP, GIT.

The Home Depot, Dallas, TX

Feb 2016 –March 2018

Java Developer

- Followed Agile Software Development Methodology in the progress of the project.
- Involved in design of Class Diagrams, Sequence Diagrams and Event Diagrams as part of Documentation.
- Used Java-J2EE patterns like Model View Controller (MVC), Business Delegate, Data Transfer Objects, Data Access Objects, factory patterns.
- Created End to End Framework for Acceptance Testing using Cucumber, JDBC, Maven, WebDriver, Java and TestNG.
- Involved in managing multi-node MongoDB clusters on public cloud structure.
- Used Bootstrap and AngularJS, React.js and Node.js in effective web design.
- Developed various REST controllers for different HTTP methods to serve the data in JSON for the UI.
- Used MAVEN for project management and build automation. Used Subversion as a version control for implementing the application.
- Used shell scripts for the deployments to Web Sphere Application Server for IT (Integration Testing), ST (System Testing), UAT (User Acceptance Testing) environments.
- Provided scalable architecture using Hibernate and Spring (IOC, ORM, JDBC, and MVC) frameworks.
- Worked with Web services components like Restful Web services to interact with UI Interfaces using REST Easy API.
- Worked on java multithreading programming, Synchronization, Java Mail API, and Collections API for concurrent product models upload/download process.
- Developed SOAP based web services using Apache CXF and tested them using SoapUI.
- Extensively used the LOG4j to log regular Debug and Exception Statements.
- Used Spring framework and J2EE components, utilized Spring Boot, IOC, and DAO modules.
- Used Spring Boot to create stand-alone spring applications.
- Used Spring Boot framework to write Presentation Layer, Business Layers and Controller servlets.
- Testing and production support of core java based multithreading ETL tool for distributed loading XML data into Oracle database using JPA/Hibernate.
- Implemented Java EE components using Spring MVC, Spring IOC, Spring transactions and Spring security modules.
- Employed Spring Boot for initializing and bootstrapping the build configuration for the boot-based web applications.
- Created database tables in Oracle and Teradata created required SQL queries, stored procedures, and used JDBC to perform database operations.

Environment: Java, Core Java, JIRA, Spring boot, JUnit, Agile, Spring, JavaScript, ORM, Web Services, Selenium, HTML, CSS, Oracle PL/SQL, Maven, Bootstrap, JMS, Jenkins, GIT, RESTful.