**Avinash**

**Phone: +1** 469-898-0333

**Email:** [**avinash123.java@gmail.com**](mailto:avinash123.java@gmail.com)

**PROFESSIONAL SUMMARY:**

* **Having 8+ years** of experience in design and development of projects, building distributed web applications using **Java/J2EE** on various platforms.
* Worked in all phases of the development life cycle including architecture, analysis, design, development, testing, implementation, deployment enhancements and production support.
* Good Skills in all phases of **SDLC** like requirements, application development with **Agile, Scrum, TDD, Waterfall**
* Extensive experience in client-side development using **Angular 9, React JS, Node JS, HTML5, CSS3/4, JavaScript, JSON** and **Bootstrap.**
* Good Experience with **Spring MVC, Spring Boot, Spring AOP, Spring DAO, Spring Security, Spring Batch, Spring Transactions.**
* Developed **Dynamic Responsive web applications (RWD)** using **Angular 4/8/9.**
* Experience building data visualization using **D3.js.**
* Developed **Spring Boot Applications** using **Microservices** and **Synchronous protocols** like **Java/REST.**
* Good experience with **Spring boot standalone application, Spring Integration, Spring DAO, Spring Security, Spring AOP, Spring Transactions, Spring Batch.**
* Implemented **Design Patterns Singleton**, **MVC, Object Factory**, **Front Controller, Factory Design pattern.**
* Developed applications using **EJB, Spring, Hibernate and REST based Web services.**
* Used **Microservice** with **Spring Boot** through a combination of **REST** and **Apache Kafka** message brokers.
* Expertise in **Microservice** using **Spring, Spring Boot, Spring Cloud** to develop loosely coupled processes.
* Implemented **Microservices** based on **Restful API** utilizing **Spring Boot** with **Spring MVC** and **Apache Kafka.**
* Strong understanding of **Microservice patterns Circuit Breaker, Aggregator, Proxy chaining.**
* Experienced with distributed transaction management with isolation/propagation levels with **Spring JTA.**
* Experience in developing **PL/SQL Stored Procedures, Triggers and Views** with various databases like**DB2, Oracle, SQL Server and MySQL.**
* Experience with **MongoDB** development (reports, schema design, map reduce functions) and migration from **SQL** relational database to **NoSQL** databases like **MongoDB, Apache Cassandra.**
* Experience in using various **AWS** components like **EC2** for virtual servers, **S3** and **Glacier** for storing objects, **EBS, Cloud Front, Elastic cache, IAM, Cloud Watch, Cloud Formation and Dynamo DB**.
* Adding permissions to **AWSSQS** to interact with the Queue and involved in writing custom policies.
* Experience in creating **IAM** policies, roles, and user / group management to control access to **AWS** resources.
* Experience in creating **Docker** images, Containers, push/pull and integrating with Spring Boot.
* Extensive working with **Amazon web Services** like using **Elastic Beanstalk**, **EC2** and **AMI** with **Linux.**
* Proficient in using **Amazon Web Services (AWS).** Extensive experience focusing on services like **EC2, Elastic Beanstalk, CloudWatch, CloudFront, Cloud Formation, IAM, S3, RDS, Elastic Cache, SNS, SQS, AMI.**
* Worked with **Docker** and **Kubernetes** on multiple cloud providers, from helping developers build and containerize their application (**CI/CD**) **pipelines** to deploying either on public or private cloud.
* Experience in testing with **JUnit Framework** using **Mockito** and **Easy Mock, Spring Junit Runner, JMeter.**
* Experience in **Log4J2 for** extensible logging, debugging and error tracing.
* Good expertise in build tools like **ANT, Gradle** and **Maven.**
* Used **JENKINS** for continuous integration (CI) and continuous deployment (CD) pipeline.
* Ability to provide solutions from a functional and technical perspective, meet deadlines.
* Testing environments like **JUnit, Selenium** and front-end testing tools using **Jasmine, Karma and Protractor.**
* Strong experience with version controls **GIT**, **Bitbucket, SVN.**
* **JIRA** as Defect management for bug, issue tracking of application.

**TECHNICAL SKILLS:**

|  |  |
| --- | --- |
| **Programming Languages** | Java 8, J2EE, PL/SQL, Python |
| **Web Technologies** | HTML5, CSS3/4, JavaScript, jQuery, Angular 4/8/9, TypeScript, React JS, Node JS, Express JS, JSON, Swagger UI, XML |
| **Java/J2EE Technologies** | Servlets, JSP, EJB, JDBC, JSF, Struts2, Swings, AWT, Applets. |
| **Spring Frameworks** | Spring Boot, Spring MVC, AOP, IOC, Spring Security, Spring Batch |
| **Application/web Server** | WebLogic Server, Apache Tomcat, WebSphere, JBOSS |
| **Messaging Services** | JMS, Rabbit MQ, Active MQ. |
| **O-R MAPPING** | Hibernate |
| **Data base** | Oracle, DB2, MySQL, MongoDB, Cassandra, SQL |
| **Cloud Environments** | Azure, Pivotal Cloud Foundry, AWS, Netflix Eureka |
| **Version Control** | GIT, Bit Bucket, SVN |
| **Web Services** | SOAP – WSDL, JAX-WS, RESTful – JAX-RS, Jersey |
| **Methodologies** | Agile, TDD, waterfall model |
| **Testing Tools** | Junit, Jasmine, TestNG, Mockito, Protractor, Jenkins, Selenium, Cucumber, Log 4j2 |

**PROFESSIONAL EXPERIENCE**

**CapitalOne, San Francisco, CA May 2021 –Till Date**

**Role: Java Full Stack Developer**

**Responsibilities:**

* Collaborated with team on implementing new features in an **Agile** environment.
* Building interactive modern user interfaces with **HTML5 / CSS4 and TypeScript / JavaScript, Angular.**
* Building custom advanced data visualizationwith**D3.js**.
* Developing working prototypes from UI designs and building reusable code and libraries.
* Developed custom modular components and services using **RxJS**, **NgRx**, **Angular Material**, **Typescript** to implement key functionalities.
* Working with **Angular 9** to create web components. Developing test cases using **Jasmine and Karma.**
* Extensively used **Java8**features such as **lambda expressions**, **Parallel operations on collections**, multithreading and for effective sorting mechanisms.
* Used **Java8 features** like **Parallel Streams, Lambdas, functional interfaces,** and **filters.**
* Built reactive **RESTful Microservices** using **Java 8** and Java frameworks **Spring Boot**, **Spring Web.**
* Used**Spring Boot** for building applications with **Spring initializers** and bootstrapping the build configuration and develop custom solutions that act upon **Jenkins** information in authentic time.
* Developed the application with various **Spring Framework** modules like **Spring IOC, Spring AOP, Spring Boot, Spring Security** and **Spring Batch.**
* Worked on **Spring quartz** for scheduling tasks to generate reports.
* Develop strategy for integrating internal security model into new projects with **Spring Security and Spring Boot**
* Implemented middle tier using **Spring WEB and Spring Boot**. Created reusable components as **spring aspects** to use across the application.
* Used **Spring Boot Actuator** to monitor and manage the application in production environment.
* Used Rest Controller in Spring framework to create **RESTful Web services** and **JSON** objects for communication.
* Design and develop **REST** based **Microservices** to support UI components.
* Implemented **Microservices** based Cloud Architecture on **AWS** Platform.
* Developed **Microservices** with **Spring Eureka** to retrieve API routes for the entire cluster.
* Used **Hibernate** as an Object-Relational Mapping ORM tool to store the persistent data and for communicating with Oracle database.
* Designed and implemented data relational mapping for web apps using **Hibernate** adaptors.
* Extensively used **Hibernate** concepts such as inheritance, lazy loading, dirty checking, locking and transactions.
* Used **AWS** cloud watch in maintaining and monitoring of production and corporate storages.
* Designed and implemented **IAM** strategies, policies, and procedures to ensure secure access control for a large-scale enterprise environment.
* Worked on spinning up **AWS** EC2instances, Creating IAM Users and Roles, Creating Auto Scaling groups and Load balancers and monitoring through Cloud Watch for the applications, S3 buckets, VPC etc.
* Used Spring **JPA** to design entity data mapping with **Oracle DB.**
* Created **Docker** containers and Docker consoles for managing the application life cycle.
* Managed **Docker** using **Kubernetes** and used **Kubernetes** for service discovery.
* Used **Jenkins** pipelines to drive builds to the Docker registry and deployed to **Kubernetes.**
* Experience in transferring data from different data sources using **Kafka** producers, consumers, and Kafka brokers.
* Incorporated **apache Kafka**, **Elastic** Search, **MongoDB** and **PostgreSQL** to the project.
* Used Spring **Kafka API** calls to process the messages smoothly on **Kafka** Cluster setup.
* Developed **RESTful services** using **JAX-RS**, spring frameworks.
* Developed prepared statements using **NoSQL, SQL** queries.
* Deployed the Application into **Docker** container and made easily accessible at runtime using cloud services like **AWS, Netflix Eureka** for load balancing and a broker service to maintain status **using Spring Kafka**

**and Zookeeper.**

* Use Java unit testing frameworks like **Mockito** to serve code coverage extensively. Used **Junit** for unit testing and implemented with **Log4j 2** to provide logs of exceptions.
* Used **GIT** as version control system.
* **JIRA** as the bug tracking system to track and maintain bugs/issues.

**Environment:**

Java 1.8, J2EE, Spring Boot Framework, RESTful Services, Microservice, MongoDB, Spring Security, Hibernate, Spring MVC, Apache Kafka, HTML5, CSS4, JSON, SASS, ES6, TypeScript, Angular 9, Oauth2, XML, JavaBeans, AWS, Docker, Oracle, SonarQube, Swagger, Elastic Search, Kibana, Netflix Eclipse, Maven, Junit, Jasmine, JIRA, GIT, Jenkins, Log 4j 2, Agile

**Mayo Clinic, Rochester, New York Sep 2020 - April 2021**

**Role: Java Full Stack developer**

**Responsibilities:**

* Involved in Full Cycle of Software Development from Analysis through Design, Development, Integration and testing phases by following **Agile** Software Development with **Scrum** methodology.
* Analysing, gathering and researching the application requirements. Performed Use case design, object modelling and transformed Use Case designs into Class Diagrams and Sequence Diagrams.
* Followed **Test Driven Development (TDD)**Methodology.
* Experience in using **React JS components, Forms, Events, Keys, Router, plus Redux, Animations**and
* **Flux concept**.
* Good Experience in **React.js** for creating interactive **UI's** using **One-way data flow, Virtual DOM, JSX, React Native**concepts. Familiar with creating Custom Reusable **React** **Components Library**.
* Used **Java8**features like stream and Lambda expressions. Have also worked on **Java8** along with Cold Fusion.
* Used Rest Controller in the Spring framework to create **RESTful Web services** and **JSON** objects
* for communication.
* Recommend and develop a strategy for integrating **internal security**model into new projects with **Spring Security**and **Spring Boot**.
* Used **Spring IOC, AOP, Spring Boot**to implement middle tier. Created reusable components as **spring aspects**to use across the application.
* Implemented   microservices using **Spring boot**, and enabled the discovery using **Netflix** eureka server**.**
* Used **Cassandra** clusters, Java Scripting to load unstructured data into sharing environment.
* Hardly **focused** on **business to consumer (B2C)** which helps in fast rectifying& resolving solutions.
* Using **PCF** did smoke tests, which are functional unit and integration tests on all major system components
* Configured the **Docker** Containers and creating **Dockers** files for different environments.
* Involved in **Compilation of B2C** and Primary focus on **CI/CD** to resolve the break.
* Used **JENKINS** to improve Continuous integration (CI) and Continuous delivery (CD).
* Accountable to use **GIT** to control, track and maintain the different versions of the project.
* Used **Prometheus** to scrap the metrics of the application and **Grafana** for the graphical representation of metrics.
* Used **Log4j** to print the logs in the **Rancher** and to store them in the **Splunk**.
* Implemented integration tests using **TestNG** and functional testing using the **Selenium.**
* Extensively monitor production and pre-production Logs to identify and troubleshoot the defects using **Rancher, Splunk** and **Dynatrace** for application performance.

**Environment:**

Java/J2EE, Java8, NoSQL & SQL Queries, Spring Boot, Spring, Spring Security, Restful Webservices, Microservices, Spring Hystrix, Docker, GIT, JUnit, Jenkins, Mockito, MongoDB, TestNG, Selenium, log4j, Agile Methodology, Maven, Kubernetes, Splunk, Rancher, Run Scope, PCF, Dynatrace.

**American Express, Phoenix, Arizona Nov 2018 - Aug 2020**

**Role: Java Full Stack Developer**

**Responsibilities:**

* Involved in Full Cycle of Software Development from Analysis through Design, Development, Integration and testing phases by following **Agile** Software Development with **Scrum** methodology.
* Developed test automation framework for web app using Selenium RC, Web Driver Backed and JUnit.
* Use of XPath in the context of Selenium **RC** in order to pick out page elements in a robust manner by avoiding index-based expressions. These **XPath** were then abstracted behind Page.
* Object classes to provide a central point of change of any UI changes made in the application.
* Developed User Interface application modules using **HTML5, CSS3, JavaScript, JSON** and **AJAX**.
* Used React.js with **RXJS** for building rich internet applications, and to optimize in-browser use and to load the module and to improve the Speed. Linked with API data to view render **virtual DOM** dynamically.
* Used **Node.js** as a proxy to interact with Rest services and interact with Database.
* Implemented the business modules integration using **Spring** and **Hibernate data mapping**.
* Used **Spring Boot Actuator** for application's configuration properties in various environments, Upgraded Spring Rest Controllers and Services classes to support migration to Spring framework.
* Using **Spring AOP Module** to implement logging in the application for application status and deployed Spring Security for session fixation, **clickjacking**, cross site request forgery.
* Designed and developed custom message adapter components using **Apache Kafka** that allowed messages to travel through **Microservices** to base on RESTful API utilizing Spring Boot with Spring **MVC**.
* Developed Microservices with Spring to retrieve **API routes** for the entire cluster. Using this strategy each Microservice in a cluster can be load balanced and exposed through one API gateway.
* Developed **Entity objects** and used Hibernate the **ORM tool** to access persistent data.
* Experience using persistence framework like **Hibernate, JPA for mapping java classes** with Database.
* Experience working on **Docker Hub**, creating Docker images and handling multiple images primarily for **middleware installations** and **domain configurations.**
* Worked on creation of **Docker container images, tagging, pushing images, integrating Spring boot**, **created the Docker containers and Docker consoles** for managing the application life cycle.
* Utilized **AWS Lambda** platform to upload data into AWS S3buckets and to trigger other Lambda functions (**EC2, MongoDB**) focusing on high-availability, fault tolerance, and auto-scaling.
* Involved in **configuring Elastic Load Balancer**s with Auto scaling to handle high traffic loads.
* Worked with **Open APIs** for various coupling functionalities.
* Regression testing algorithms for functionalities. Developed various Open API’s and worked with knowledge fusion (**KF**) to successfully implement the regression testing.
* Worked on **JBoss** Application server implementation, support, workload management and performance tuning including Web server setup configuration with **JBoss App Server**.
* Used Maven automated build scripts to compile and package the application and implemented **Log4j 2**.
* Implemented unique design patterns such as singleton, business factory and **J2EEdesign patterns**.
* Used **Maven**as a build and dependency management tool for creating **EAR, WAR** and **JAR** files to be deployed in application servers and integrated with **GitHub, Jenkins Jobs**.
* Used **JIRA** for bug tracking, issue tracking and project management.
* Involved in converting SQL queries into **Apache Spark** transformations using **Apache Spark RDD s**in **Scala**.

**Environment:**HTML5, CSS4, jQuery, AJAX, React.js, NodeJS, APIGEE, Java1.8, J2EE, Spring, Hibernate, Web Services, SOAP UI, XML, Open Api, Docker, AWS, Spring Boot, Swagger-UI, Log4j 2, Selenium, Jenkins, JIRA, Maven, GIT, JBoss.

**Assured Healthcare, Gurnee, Illinois Jan 2018 - Nov 2018**

**Role: Java Full Stack Developer**

**Responsibilities:**

* Involved in analysis, specification, design, implementation and testing phases of **Software Development Life Cycle** (SDLC) based on the functional requirements.
* Application is implemented using agile methodology where there is a daily **SCRUM meeting** to understand the status and resolve any issues.
* Developed the applications using **Java 1.8** and implemented its features **like Lambdas expressions**, **Time API, Streams**, functional interfaces, **Collectors, Default Methods**, Type Interfaces, foreach.
* Used **Apache Kafka confluent** distribution both as a traditional messaging message and stream platform.
* Implemented the applications using the concrete principles laid down by **several Java/J2EE Design** pattern like business delegate, **MVC, Singleton, Data Transfer Object (DTO)** and **service locator**.
* Implemented the application using **Spring IOC, Spring Framework**, **Spring AOP, Spring Boot,** **Spring Batch**, and handled the security using **Spring Security**.
* Designed architecture and developed **microservice**s using **Spring boot** and **Rest API.**
* Developed the persistence layer using **Hibernate** **Framework,** created the **POJO objects** and mapped using Hibernate annotations and Transaction Management.
* Integrate the web services using **Apache Camel** routing and spring.
* Employed **Spring Boot** for initialize and **bootstrapping** the build configuration for the boot-based web applications.
* Work with cross -functional teams planning, modelling, and implementing solutions utilizing **NOSQL Technologies**.
* Created Quality gates in **SonarQube** Dashboard and enforced in the pipelines to fail the builds when conditions not met.
* Developed **Python application** utilizing libraries such as **NumPy, Pandas** etc., and frameworks of the time such as **Django, Flask**, and **NumPy**.
* Utilized **Python** to perform data analysis and modeling, potentially using tools such as SciPy, Matplotlib, and Jupyter notebooks.
* Developed automation scripts in **Python to streamline** workflows and reduce **manual effort.**
* Maintained and updated legacy **Python codebases**, demonstrating familiarity with debugging and troubleshooting techniques.
* Manipulated data using **CRUD operations** of **MongoDB database management** system and handled database access using **NodeJS**.
* Worked on the **OAUTH** for accessing the cloud storage like BOX, One Drive, Google Drive, Drop Box.
* Used JIRA to assign, track, report and audit the issues in the application.
* Integrated spring with **ORM frameworks** **Hibernate** and **spring JDBC** to do database operations with **ORACLE**. Used **Spring Data JPA** to be utilized newer ways to query the databases.
* Improved the configuration management infrastructure using **Jenkins slaves** and **GIT.**
* Installed application on **AWS EC2 instances** and configured the **storage on S3 buckets**.
* Worked on deployment Automation and Containerization (**Docker, Kubernetes**).
* Created a **CI/CD pipeline** using **Maven, Jenkins, Ansible, Docker** and AWS container service.
* Worked with IntelliJ and used Gradle build tool to achieve more functionality for build process.
* Deployed and tested the application in UNIX on **IBM Web Logic Application Server**.
* Developed JUnit test cases for Persistence layer and Business layer to perform the unit level testing.

**Environment: Java 1.8, NodeJS, jQuery, DOM, JSON, Spring Boot, Junit, GIT, Maven, Python, Jenkins, REST web service, HTML5, CSS3, AJAX, JIRA, GIT**

**Slightest - Sunnyvale, California Feb 2017 - Jan 2018**

**Role: Java Full Stack Developer**

**Responsibilities:**

* Involved in Collection, Analysis, Design, Development and testing requirements of applications developed using **AGILE SCRUM methodology.**
* Deploying **KAFKA connect** in standalone and distributed mode creating docker containers using **DOCKER**.
* Observe the **performance** of the system using profiler and java virtual machine **JVM counters**.
* Developed and then implemented user interface by using the **React JS**to handle cross browser compatibility issues in different browsers.
* Integrated spring with **ORM frameworks Hibernate** and **spring JDBC** to do database operations with **ORACLE**. Used **Spring Data JPA** to be utilized newer ways to query the databases.
* Involved in writing **JUNIT test** cases and day to day builds and deployments using MAVEN and Jenkins.
* Created a **CI/CD pipeline** using **Maven, Jenkins, Ansible**, **Docke**r and AWS container service.
* Developed a modularized application using **n-tier J2EE architecture**, application server, spring framework, Hibernate.
* Developed software for data transfer and validation using **Apache Camel** and **shell scripts**.
* Employed monkey testing using jest and puppeteer.
* Involved in Maven based build process and continuous integration of the project using Bamboo and Jenkins.
* Integrated SonarQube with **Jenkins** for continuous inspection of code quality and analysis with SonarQube scanner for Maven.
* Implemented a Continuous Delivery pipeline with **Docker, Jenkins** and **GitHub** and **AWS AMI's**, whenever a new **GitHub** branch gets started.
* Building search feature based on open-source tool Elastic Search. Implemented system logging solution using Elastic Search, **Kibana** and **Logstash (ELK).**
* Expertise in designing and developing Web applications using **HTML, jQuery, DHTML, CSS,** **XML, JSON, JavaScript**, TypeScript, **ES6, Redux, React, Bootstrap**.
* Writes **SQL scripts** and builds underlying storage table with **dynamic business processes**. Participated in the use of web-services utilizing **SOAP,** which enabled the business application to be merged with the legacy applications and encourages potential applications.
* Researched solution for container orchestration using **Kubernetes**.
* Extensively utilized **Core Java sets, Generics,** Error management, Functionality **interface trends**, even focused with practical **Java programming** principles, **lambda expressions**.

**Environment**:

Spring Boot, HTML 5, CSS 3, Kafka, React JS, Spring Data JPA, Express Js, Docker, Spring Framework, Kubernetes, Spring Security, JavaScript, NodeJS, Bootstrap, Spring, Jenkins, JUNIT, Hibernate, AWS, Web Services (SOAP), RESTful, Apache, Maven, MongoDB.

**Coleman Health Services, Kent, OH March 2016- Dec 2016**

**Role: Java Full Stack Developer**

**Responsibilities:**

* Involved in analysis, specification, design, implementation and testing phases of Software Development Life Cycle (SDLC) based on the functional requirements.
* Application is implemented using agile methodology where there is a daily **SCRUM** meeting to understand the status and resolve any issues.
* Used **Apache Kafka** confluent distribution both as a traditional messaging message and stream platform.
* Upgraded existing **UI with HTML, CSS, jQuery, Java Script**, and **interaction.**
* Designed architecture and developed microservices using Spring boot and Rest API.
* Spring **MVC model integration** for front-end request action controller.
* Created Quality gates in **SonarQube** Dashboard and enforced in the pipelines to fail the builds when conditions not met.
* Responsible for developing a front-end application using React JS and FLUX architecture for internal teams’ productivity use.
* Manipulated data using **CRUD op**erations of **MongoDB database management** system and handled database access using NodeJS.
* Worked on the **OAUTH** for accessing the cloud storage like **BOX, One Drive**, **Google Drive**, **Drop Box.**
* Used **JIRA to assign**, track, report and audit the issues in the application.
* Created the **React JS components** using life cycle hooks.
* Integrated spring with **ORM frameworks Hibernate** and **spring JDBC** to do database operations with **ORACLE**. Used Spring Data JPA to be utilized newer ways to query the databases.
* Created Stacks using **Amazon Cloud** Formation templates to launch **AWS Infrastructure** and resources. Used **AWS Lambda** to run the code in the **AWS**.
* Involved in Monitoring servers using **Nagios, Cloud** Watch and using **ELK stack Elastic Search fluent Kibana**.
* Improved the configuration management infrastructure using **Jenkins slaves** and **GIT**.
* Installed application on **AWS EC2 instances** and configured the storage on S3 buckets.
* Worked on deployment **Automation** and Containerization (**Docker, Kubernetes**).
* Created a **CI/CD pipeline** using **Maven, Jenkins, Ansible, Docker** and **AWS** container service.
* Worked with IntelliJ and used Gradle build tool to achieve more functionality for build process.
* Deployed and tested the application in **UNIX on IBM Web Logic Application Server**.
* Developed JUnit test cases for Persistence layer and Business layer to perform the unit level testing.

**Environment:**

Java, AWS, HTML, CSS, Bootstrap, jQuery, Node.js, React.js, Spring IOC, Spring MVC, Spring Batch, Spring Security, Spring Boot, Microservices, XML, XSD, SOAP, RESTful, Active MQ, Log4j, SOA, Apache Tomcat, JUnit, Maven, GIT, JIRA, Agile Methodology, and IntelliJ.