**Kavin Subramanian**

**Java Developer**

**Kavinbe18@gmail.com**

**321-754-6170**

**PROFESSIONAL SUMMARY:**

1. Around **5 Years** of professional Software development experience in SDLC driven AGILE environment on Enterprise Solutions and Distributed Web Technologies using **Java/ J2EE**.
2. Proficiency in using **Spring Framework including Spring MVC, Spring AOP and Spring Boot** to implement Dependency Injection, transaction management and Aspect management.
3. Proficiency in **Amazon Web Services (AWS)** particularly in **S3 Bucket, EC2, Lambda and AWS Cognito.**
4. Exposure in implementation and maintenance of Site Security with **OAuth Protocol, JWT Token Authentication,** multiple file transfer protocols.
5. Expertise in **RDBMS** and managing **CRUD** operations with database access technologies like **JDBC, Spring JPA,** and **Spring Data** and **Hibernates.**
6. Experience with Object Oriented Programming such as **Core Java, including Collections API, Multithreading, Generics, Data Structures, Algorithms** and **JDBC.**
7. Expertise in databases including **SQL (PostGRE** and **Oracle Server)** along with fair exposure to **NoSQL** databases involving **stored procedures, functions, triggers, packages** and **indexes.**
8. Good command over commercial RDBMS such as **MongoDB, ORACLE, DB2, SYBASE, PostgreSQL, MySQL** and **SQL SERVER.**
9. Worked with messaging systems like **Apache Kafka** from **JMS** as messaging service and other **MQs like Rabbit MQ, IBM MQ** and **Active MQ.**
10. Worked with build automation systems like **Maven, Ant** and **Gradle** and **CI/CD** using **Jenkins**.
11. Thorough exposure in **UI/ Front End** Development using **Angular, HTML5, CSS** and **JavaScript**.
12. Expertise in **Design & Query Optimization, Performance Tuning & Indexing** and Implementation of database objects including **Tables, Views, Stored Procedures, Functions** and **Triggers**.
13. Extensive Experience in Core Java concepts such as Exception **handling, Multi-threading, Synchronization, Serialization, IO, Collections framework, Java.**
14. Experienced in defining and designing the layers, components of the project using **OOAD methodologies, AGILE/Waterfall** and **standard J2EE patterns** and guidelines.
15. Compelling experience in AGILE and Test Driven Development on Web services technologies such as **REST** and **SOAP.**
16. Experienced in designing, developing and maintaining portal applications using **IBM WebSphere Portal on Rational Application Developer (RAD).**
17. Experience of **Design Patterns** like **Singleton, Data Access Object, Factory, Observer** and Circuit Breaker Design Pattern.
18. Experience with application/web servers like **WebLogic, WebSphere, Tomcat**.
19. Expertise in testing with **JUnit, Log4j, Postman** and **Mockito** and implemented **Swagger** for **API** documentation.

**EDUCATION:**

* **Bachelors in Electronics and Communication Engineering, Anna University, TN, India.**
* **Masters in computer Science, University of Central Florida (UCF).**

**TECHNICAL SKILLS:**

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| Languages | Java, Python, JavaScript and SQL |
| J2EE API | JSP, Servlets, JDBC, EJB2.0/3.0,JPA,Hibernate, Spring Batch, Servlets |
| Messaging Server | Apache Kafka, JMS, RabbitMQ, ActiveMQ |
| Framework/APIs/Tools | JUnit, Spring, Spring MVC, Angular, Jenkins |
| Web Services/SOA | XML, SOAP, REST, WSDL |
| Web Technologies  | AJAX, JQuery, HTML, HTML5, DHTML, CSS3 |
| Databases | Oracle 12c/11g/10g, MS SQL Server and MongoDB |
| Version Control | Git, SVN |
| IDE | Eclipse, IntelliJ. |
| Methodologies | Agile, Waterfall, TDD (Test Driven Development) |
| Cloud Services | AWS S3, EC2, Lambda and Cognito. |

**PROFESSIONAL EXPERIENCE:**

**Client: Equifax, Atlanta, GA Sep’19-Present**

**Project: Global Consumer Service**

**Role: Java Developer**

**Description**: Developed, migrated and tested microservices for credit activity monitoring application like Equifax Credit Monitor, Equifax ID Patrol and Equifax Score Watch Alerts. Developed independent APIs for integrating third party features with Credit Karma, Norton Life Lock and Discover Score Report to help with soft and hard inquiries on customer credit files along with APIs to communicate with other credit bureaus Experian and Transition for Fraud monitoring.

**Responsibilities:**

* Migration of monolithic legacy architecture to **Micro Services** in record down-time using **strangler pattern** to convert individual components to **Micro Services.**
* Overhauled Service from **legacy Struts Framework** to **Spring Framework** with **Spring Cloud**.
* Migrated **Legacy Struts** Access to **Hibernate** to provide Object Relational Mapping (ORM) and act as persistence layer along with **Spring Data JPA.**
* Setup **Spring Cloud Config Server** to help distributed systems through external configurations.
* Worked on **CI/CD pipeline** for simultaneous Integration and testing of services using Jenkins.
* Deployed on a regular basis using continuous integration tools like **Jenkins, Sonar** and Fortify.
* Used OAuth2.0to authenticate third party and consumer APIs to send encrypted signed **JWT** tokens.
* Responsible for creating and maintaining architecture for **Restful API** using **Spring Boot.**
* Developed applications using **Micro Service** using **J2EE** and **Web Services** like **Java, XML, HTML, OOA** and **OOD Concepts, Adobe Flex, Spring Boot, Web services, Hibernate.**
* Developed GUI using **JSP, JavaScript, ReactJS, HTML5, AJAX, XSL, AngularJS, CSS3** and **Bootstrap** for effective and web based application
* Implemented **Java EE** components using **Spring MVC, Spring IOC, Spring transactions** and **Spring Security Modules.**
* Used **AWS Lambda** Services to upload data into **AWS S3 buckets.**
* Used **Spring Cloud** to enable Eureka to register and load balancer the services on the **AWS** instances.
* Have knowledge on partition of **Kafka** messages and setting up the replication factors in **Kafka** Cluster.
* Multipage Front End Migration from **JSP** to **Angular** to build functional multipage website.
* Worked on **Spring** batch for batch processing of data in chunks.
* Developed UI using **AngularJS, Bootstrap, Java Script** and responsible for creating components that displays the inventory report.
* Responsible for writing **JUnit** tests and used **Mockito** for unit testing of classes, to mock dependencies and to perform domain, service and controller level testing.
* Used **Log4j** with **Spring Boot** for logging and tracing and debugging purposes.
* Responsible for tuning DDL, DML and **PL/SQL** procedures for the database
* Used JMS for reliable and asynchronous exchange of important information such as payment status report.
* Used **Java 8 Lambda** expressions along with Streams for creating internal iteration and performing chain operations such as Filter, Map, Collect on a collection.
* Implemented **CI/CD** with **Gradle, Jenkins** and **GitHub, Docker, Kubernetes** on **AWS**.
* Dutiful documentation for workflows as part of the regular sprints in confluence and non-functional requirement.
* Inter-portlet Communication between multiple portlets with portlet wiring feature of **IBM WebSphere** Portal.
* Involved in setting up **AWS** (Amazon Web Services) services with **EC2** instances, **S3 bucket,** IAM took part in deploying applications in **AWS** along with writing and retrieving files to and from **AWS S3 bucket** for UI to render data faster.
* Comprehensive translation of business-related project requirements into application and design Involved in setting up the project infrastructure understanding the BRD and architectural requirements.

**Environment**: Java 8, JDK1.8, Spring Boot 2.2.0, Angular, Spring Batch3.0.7, Hibernate, AWS, JAXB, Oracle 12c, Oracle SQL developer, MongoDB, Eclipse, Mockito unit test, Micro Service Architecture, Postman, Tomcat 8, Jenkins, Maven, Fortify

**Client: Kaiser Permanente, GA Oct’18 - Aug’19**

**Project: Prescription Portal**

**Role: Java Developer**

**Description**: Developed a support enquiry application which provides a synchronous HTTP service interface to the pharmacy vendors. An XML message was required to be generated by the caller and relayed to the service. The service will always generate a response, even if no changes to the claim are to be made. The claim service is a set of RESTful web service endpoints that provide an interface to the PCE service. The service expects a well-formed claim request element to be composed by calling the client and will accept the request in XML format.

**Responsibilities:**

* Responsible for creating **DDL, DML** statements for the database.
* Involved in the creation of **POJOs** for implementing business logic.
* Made extensive use of the **Spring Framework** for developing the middleware and linking it to the **backend** via **Hibernate.**
* Involved in creating and updating complex **PL/SQL** stored procedures, triggers and views.
* Used Hibernate Frameworks in mapping bean class to database tables to provide transparent persistence **POJO’s.** Improved performance by setting up second level cache.
* Involved in implementing **design patterns (DAO, DTO, Singleton, etc**.) to interact with backend components in order to transfer data to the UI layer.
* Extensively worked on **JUnit** for **unit testing.**
* Implementation of **RESTful services** by identifying the resources used standardized mechanism for defining **URI** templates, **JSON** data exchange between Client/Server by calling **JQuery.**
* Used various **Core Java** concepts such as Multithreading, Exception Handling, Collection **APIs** to implement various features and enhancements.
* Developed Web services to allow communication between the applications using **Rest** and **SOAP** based **Web Services.**
* Actively participated in System testing, Integration testing and Stress testing reviews.
* Used **Jenkins** as continuous integration tool for the application.
* Involved in analyzing **BRD** and preparing **HLD & LLD** to get an understanding of the system.
* Used Atlassian **Jira + Agile** to manage tasks and to implement **Agile Scrum.**
* Performed version control with **Git.**

**Environment**: Java/J2EE, Spring, Hibernate, JQuery, UML, HTML, RESTFUL Web Services, SOAP Web Services, Design Patterns, XML, CSS, Servlet, IBM DB2, IntelliJ, WebLogic, Git.

**Client: WIPRO Solutions, Chennai, India Apr’17 – Jul’18**

**Project: IMC Council**

**Role: Full Stack Developer**

Description: The IMC Council incorporates the discussion, development and testing of IoT (Internet of Things) solutions for WIPRO’s partner who benefit from better connectivity through IoT services. IMC Council has benefited partners from automotive, retail and shipping industries through high visibility and analytics of their internal business operations.

**Responsibilities:**

* Used **AWS Cognito** to provided User Identity management for Security and Scalability.
* Setup a secure **REST backend** with **Spring Security** and Used **AWS cognito** to provide User Identity.
* Introduced to **Spring Framework** to Handle **CRUD requests** from **IoT devices** with **Spring Boot, POST operation** was frequently used.
* Developed backend of the application using **Spring framework: Spring IOC, Spring AOP, Spring Annotations.**
* Used **JSON** formatted documents to store device details on **AWS DynamoDB.**
* Configured Jenkins for continuous integration with issue tracking setup in Bit bucket.
* Used **Spring MVC** for setting up the **controller, domain, service** and Dao layers.
* Worked on Front End Development using **JSP, HTML** and **CSS.**
* Extensively used **Hibernate,** with inbuilt and **JPA** annotations for wiring the domain entities with the database at the data layer.
* Developed test cases using **JUnit** and **DBunit** before active development in the backend.
* Used **Mockito API** to mock the dependencies and perform service, domain and controller level testing.
* Used **Maven** to build and deploy the builds of the developed applications on **Web Logic** application server.
* Performed client side testing using **JUnit** for TDD style of delivery.

**Environment**:  AWS Cognito, MAVEN, Mockito, JDK 1.7, JUnit, Spring MVC, Spring Data JPA, Spring Boot JSP, HTML5, CSS, DynamoDB, AWS S3, Eclipse.

**Client: Report Garden Feb’16 – Apr’17**

**Project: TESARK Technologies**

**Role: Software Rotational Program (Intern)**

**Description**: Report Garden’s develops dashboard and analytics tools that are used by their customer for Customer Analytics, Operational Analytics, Marketing Analytics and Sales Analytics. They have a diverse portfolio in various industries including manufacturing, retail, healthcare, etc. I was involved in the development of a Data Management System application. This application made use of the MERN stack.

**Responsibilities:**

* Designed and implemented the application using **MERN Stack** based on the requirements and use cases.
* Exposed to use of **Angular JS, Bootstrap** and other **JavaScript** frameworks along with **HTML5** and CSS3 to develop dynamic web applications.
* Server side programming was done with **Node JS** and **Express JS.** It was also used for making connections with the database (**MongoDB).**
* Data collection and validation from the front end was done using **JavaScript.**
* Created **RESTful web services** using **Node JS** in order to handle request calls from the front end.
* Participated in **Test Driven Development** (TDD) methodology by writing **JUnit** test cases.
* Coordinated with the rest of the development team to ensure code quality was maintained. Regularly performed code reviews and code refactoring to maintain quality standards.
* Regularly documented best practices and Root Cause **Analyses (RCA**) for any errors.
* Used **WebLogic** to deploy the application.
* Used **GIT** and **SVN** as version control.
* Introduced to Full Software Development life cycle (**SLDC**) and was the initial exposure to Waterfall and **AGILE** methods.

**Environment:** React JS, HTML5, CSS3, JavaScript, AJAX, Bootstrap, Node JS, Express JS, MongoDB, RESTful Web Service, XML, JSON, TDD, JUnit, WebLogic, SVN.