**Subramanian Arunachalam**

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469-329-0116

**Java Full Stack Developer**

**SUMMARY:**

* Having 8+ Years of experience with Software Development Life Cycle in both Web-based and Enterprise applications including requirement analysis, design, and implementation and testing with priority on Object-Oriented, Java/J2EE**,** and Client-Server technologies.
* Experience in developing applications using Waterfall, Agile (XP and Scrum), and TDD.
* Experience in Front - End UI technologies like HTML5, CSS3, JavaScript, jQuery, JSON, AJAX, Node JS, AngularJS, React.js, BackboneJS, Bootstrap.
* Expert in Core Java with a strong understanding of Garbage Collector, Collections Framework, Exception Handling Multithreading, Event handling, JDBC, JMS, and Generics.
* Having good experience in implementing functional styles of java 1.8 Lambda Expressions and functional interfaces, parallel Streams.
* Expertise in J2EE Technology- Spring, Hibernate, Struts, Servlets, JSP, EJB, JPA, JDBC, JTA, JavaBeans, JMS (MQ series).
* Developed Microservices-based applications using Spring Boot and Spring Cloud.
* Experienced in developing SOA (Service Oriented Architecture) and J2EE Web Services based on RESTful, SOAP, WSDL, UDDI, JAX-WS, JAXB, and JAX-RS using tools like Apache Axis.
* Experience in developing web applications on MVC-based frameworks like Spring, Spring IOC, Spring Security, Spring Boot, Spring Batch, and Spring MVC.
* Experienced in process, validating, parsing, and extracting data from XML using XSL, XSLT, XML schemas, XPath, XForms, XSL-FO, and parsers like SAX, DOM.
* Well-versed with object-oriented design (OOD), analysis (OOA), and modeling (OOM) based on Unified Modeling Language (UML) architecture.
* Experience with Amazon Web Services (AWS) technologies such as EC2 (virtual servers), S3, ECS, AWS Lambda, Elastic Search, CloudWacth, IAM, Route53, SNS, VPC, ELB, and SQS.
* Utilized Amazon Web Services (AWS) EC2 to deploy   Docker containers with both monolith and MicroServices architecture.
* Experienced in writing SQL and PL/SQL scripts including views, indexes, sequences, packages, procedures, functions, and database triggers.
* Extensive experience in Oracle, MySQL, MS SQL Server, IBM DB2, and NoSQL databases (Mongo DB, Cassandra, and Dynamo DB).
* Experienced in JMS over messaging to exchange information more reliably and asynchronously in Enterprise Applications. Used Apache ActiveMQ and Apache Camel as JMS providers.
* Good experience with messaging systems like Kafka event sourcing.
* Experience in using Swagger to interact with API endpoints of the microservices.
* Experience creating, building, and deploying applications in a DevOps environment leveraging CI/CD tools Jenkins, SonarQube.
* Experience with IDEs such as IntelliJ IDEA, Eclipse, Spring Tool Suite, RAD, and deployment using Application Servers like Apache Tomcat, BEA WebLogic, Web Sphere, Glassfish, Camel, and JBOSS.
* Proficient in writing ANT and Maven for builds and deployments to different environments.
* Experience in UNIX/LINUX Shell Scripting and Deployment of Applications in Server.
* Excellent work experience with Version Control Tools such as CVS, SVN, and GitHub.
* Experience with Selenium, JUnit, Mockito, and Log4j in developing test cases and determining application functionality.

**TECHNICAL SKILLS:**

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| **Languages** | Java, C, C++, SQL, PL/SQL, UML |
| **Java Technologies** | JSP, Servlets, JavaBeans, JDBC, Struts, EJB, Hibernate, Spring, Spring Boot, SOA, JMS, AJAX, JAXB, JAXP, LDAP, RESTful and SOAP Webservices. |
| **Web Technologies** | HTML5, JavaScript, XML, XSL, XSLT, CSS3, Bootstrap, Jquery, Angular.js, React.js and Node.js |
| **Development Tools (IDEs)** | Eclipse, MyEclipse, RAD, WSAD, NetBeans, MS Visual Studio |
| **Web/Application Servers** | Tomcat, WebLogic, IBM WebSphere |
| **Design Patterns** | MVC, Front Controller, Session Façade, Singleton, and DAO patterns |
| **DataBase** | Oracle, MS SQL Server, MySQL, DB2, Mongo DB. |
| **Services** | SOA architecture, RESTFUL/SOAP, Microservices, Axis 2, Apache CXF |
| **Platforms** | Windows, UNIX, LINUX |
| **Methodologies** | Agile, Scrum, Waterfall, TDD, RUP. |
| **Build/Cloud Tools** | Rational Rose, CVS, Git, SVN, VSS, Clear Case, JIRA, Jenkins, JUnit, TestNG, Selenium, Cucumber, Jbehive, Mockito, Log4j, Ant, Maven, Docker, Gradle, AWS, EC2, VPC, S3, SNS, SQS. |

**PROFESSIONAL EXPERIENCE:**

**Boeing,** **Arlington, VA Aug 2022 – Till Now**

**Java Full Stack Developer**

**Responsibilities:**

* Extracting & Analyzing data with Spark from varied sources; creating & developing algorithms for smooth functioning of the system & eliminating false data
* Designing, Creating, Testing & maintaining complete data management & processing systems on Airflow.
* Constructing intricate pipelines with complete automated process; building jars, testing & deploying using Git (CI/CD)
* Developed Spark code using Scala and Spark-SQL for faster processing and testing.
* Intensifying unit tests to minimize the issue & presenting a quality product; creating unit tests to check Python functions for their expected performance & actual performance.
* Implemented Spark using Scala, Java and utilizing Data frames and Spark SQL API for faster processing of data.
* Built data processing pipelines and ETL (Extract, Transform, Load) workflows using Java and related frameworks.
* Created User interfaces for different modules utilizing JSF, Swing, JavaScript, HTML, and CSS.
* Creating utilities to automate manual work using Scala; reusing operators to lessen redundancy.
* Developed data ingestion processes by implementing custom Java applications to extract data from various sources, such as databases, APIs, and file systems.
* Expertise in setting up and managing Data Proc clusters to process large-scale data workloads efficiently. This includes configuring cluster specifications, scaling resources based on workload demands, and optimizing cluster performance for faster data processing.
* Structuring highly scalable, robust & fault-tolerant systems
* Determining data acquisitions opportunities & prospects; finding ways & methods to find value out of existing data.
* Followed best practices in code organization, documentation, and version control using Git, resulting in maintainable and scalable Flask and FastAPI applications.
* Implemented data transformations and business logic using Java libraries and frameworks, ensuring data integrity, quality, and compliance with business requirements.

**Environment:** Java, J2EE, HTML5, CSS3, JavaScript, jQuery, AngularJS, NodeJS, AWS, Microservices, MongoDB, Spring, Spring boot, Kafka, MySQL, Hibernate, MVC, Web Services, MAVEN, WebSphere, RAD, JUnit, log4j2, Jenkins, Swagger, SonarQube, UNIX, JIRA, Git.

**Wells Fargo, San Francisco, CA Oct 2020 – Jul 2022**

**Java Full Stack Developer**

**Responsibilities:**

* Following Agile Methodology (Scrum) to meet customer expectations, and timelines with quality deliverables.
* Developing the User Interface using HTML5, CSS3, JavaScript, and jQuery and enhanced response using Twitter Bootstrap and Angular JS.
* Designing, and developing a custom, single-page, responsive web application on the front-end using AngularJS.
* Implementing Model View Controller (MVC) architecture and developed Form classes, and Action Classes for the entire application using Spring Framework.
* Implementing Microservices-based Cloud Architecture using Spring Boot.
* Working on Proof of Concept for developing application using Node JS and Mongo DB
* Developing RESTful Web Services with JAX-RS using Spring Boot and Microservices Architecture.
* Spring Batch is used for Batch processing with which notifications are sent on time.
* Designing and implementing applications using Spring Boot, Spring MVC, Spring IOC, Spring Batch, Spring Annotations, Spring AOP, Spring Transactions, and Spring JDBC.
* Implementing Batch jobs using Spring Batch and creating various item readers, item writers, and item processors.
* Using Microservice architecture with Spring Boot-based services interacting through a combination of REST and Apache Kafka message brokers and working with Kafka Cluster using Zookeeper.
* Implementing the authentication and authorization of the application using Spring Security and OAuth.
* Developing JAX RS and Jersey Container for HTTP REST Calls and web services using all formats of data for Transmission like JSON, XML, TEXT, and others.
* Implementing Microservices using Pivotal Cloud Foundry (PCF) platform build upon Spring Boot Services.
* Developing Restful Web services for the transmission of data in JSON format.
* Working with APIs both as REST and SOAP via Apigee Platform.
* Using MongoDB as data storage and utilized aspects like replica sets, sharing, and clever document design to make the service extensible scale, and feature-wise.
* Using JAVA features like Lambda Expressions, Parallel Streams, and functional interfaces.
* Implementing Core Java concepts like Multithreading, Concurrency, Exception Handling, and Collections wherever necessary in the application.
* Involved in testing the SOAP web services endpoints using the SOAP UI tool.
* Developing and executing software systems utilizing JavaScript and Groovy.
* Spring beans were used for controlling the flow between UI and Hibernate.
* Involving in working with container-based deployments using Docker images, Docker file, Docker Hub, Docker Compose, and Docker registry.
* Using Hibernate concepts such as inheritance, lazy loading, dirty checking, and transactions.
* Developing scripts for build, deployment, maintenance, and related tasks using Jenkins, and Docker.
* Developing AWS S3 to copy project artifacts into the S3 bucket.
* Integrating Open stack API with Amazon EC2 cloud-based architecture in AWS.
* Responsible for Continuous Integration (CI) and Continuous Delivery (CD) process implementation using Jenkins along with UNIX Shell scripts to automate routine jobs.
* Logging and Monitoring with ELK, Kibana, Prometheus, and Grafana.
* Documented the REST APIs using Swagger API for briefing the services involved in the application.
* Creating and configuring the continuous delivery pipelines for deploying microservices and lambda functions using CI/CD Jenkins server.
* Integrating SonarQube with Jenkins for continuous inspection of code quality and analysis with SonarQube Scanner for Maven.
* Building a CI/CD pipeline using Jenkins automation and GitHub repositories using the webhooks plugin.
* Changing the AWS infrastructure Elastic Beanstalk to Docker with Kubernetes.
* Involved in managing servers using configuration management tools Ansible.
* Using RAD as IDE to develop the application and follow the standard features for debugging and running.
* Using the JIRA tool for Issue/bug tracking, monitoring of work assignments in the system
* Using Log4j2 framework to log/track applications and used GIT as a version control tool
* Following the Maven build life cycle to build the application and deploying it into the WebSphere application server
* Preparing Junit, and Selenium test cases and executing them as part of the auto-build process from Jenkins Jobs.

**Environment:** Java, J2EE, HTML5, CSS3, JavaScript, jQuery, AngularJS, NodeJS, AWS, Microservices, MongoDB, Spring, Spring boot, Kafka, MySQL, Hibernate, MVC, Web Services, MAVEN, WebSphere, RAD, JUnit, log4j2, Jenkins, Swagger, SonarQube, UNIX, JIRA, Git.

**Terralink, Menlo Park, CA Oct 2019 – Sept 2020**

**Java Full Stack Developer**

**Responsibilities:**

* Designed and developed the application using Agile Methodology and followed TDD and Scrum.
* Used Spring Boot, which is radically faster in building cloud Microservices and developing Spring-based applications with very less configuration.
* Designed and developed the REST-based Microservices using the Spring Boot, and Spring Data with JPA.
* Developed Microservices to provide Restful API utilizing Spring Boot with various data persistence frameworks such as Hibernate, JPA, and messaging engines.
* Developed a modularized application using n-tier J2EE architecture, application server, spring framework, and hibernate.
* Used a Microservice architecture, with Spring Boot-based services interacting through REST and Apache Kafka.
* Developed Microservices using Spring Boot, Netflix OSS, and Spring Cloud, and deployed to AWS Cloud.
* Deployed Spring Boot-based microservices Docker container using Amazon EC2 container services.
* Designed and developed the Simulator API for Amazon S3.
* Maintained AWS infrastructure and developed back-end services.
* Created Stacks using Amazon Cloud Formation templates to launch AWS Infrastructure and resources. Used AWS Lambda to run the code in the AWS.
* Building search feature based on open-source tool Elastic Search. Implemented system logging solution using Elastic Search, Kibana, and Logstash.
* Configured spring security in the application with LDAP Template and access controls using Spring security annotations based on user roles.
* Involved in the Integration of Amazon Web Services (AWS) with other applications infrastructure.
* Developed Spring Jersey resources for various HTTP methods and sent the requested data in JSON format to the web interface.
* Worked on AWS, High Availability Practices, and deploying backup/restore infrastructure.
* Implemented Enterprise Integration Development using Apache Camel Framework.
* Created Collections and documents and perform CRUD operations with Mongo repositories.
* Written a variety of filter queries in Mongo DB to retrieve JSON data and passed it to the service layer.
* Developed ORM mappings using Hibernate and wrote Criteria, Named and HQL queries for data retrievals in the DAO layer.
* Implemented JAX Web services by applying SOA concepts in conjunction with SOAP.
* Used Apache AXIS on Eclipse Web Tools platform for developing and creating the Web Services. Integrated with Spring IOC while implementing Web services.
* Implemented Restful web services API using HTTP and REST principles.
* Involved in working, updating, and closing the tasks created in Microsoft Team Foundation Server.
* Worked with WAS admin to deploy applications on WebSphere Application Server.
* Developed software for data transfer and validation using Apache Camel and shell scripts
* Involved in Writing and Executing SQL Scripts and responsible for fixing the issues and monitoring them to make sure it releases in time.
* Used GitHub version controlling tools to maintain project versions supported the applications through debugging, fixing, and maintenance releases.
* Day to Day Scrum meetings to update and discuss issues.
* Involved in writing JUNIT test cases and day-to-day builds and deployments using MAVEN and Jenkins.

**Environment:** Java, Spring Boot, Microservices, AWS, EC2, S3, Docker, Bootstrap, Hibernate, Agile, WebSphere, Oracle, Unix, Eclipse, TFS, SQL, Maven, Jenkins, Mongo DB, Rest, JUnit.

**Zoho, Chennai, India Jan 2018 – Sept 2019**

**Java Full Stack Developer**

**Responsibilities:**

* Involved in the complete Software Development Life Cycle including Requirement Analysis, Design, Implementation, Testing, and Maintenance. Used Agile approaches, Including Test-Driven Development (TDD).
* Used HTML/HTML5, CSS3, JavaScript, JSP, JQUERY, ReactJS, AJAX and Bootstrap in developing front end.
* Implemented client-side interface using ReactJS, flux pattern, and Redux framework for SPA.
* Worked on ReactJS for developing UI using Sorting, Pagination, and rendering for search product page.
* Used Apache Kafka for the reliable and asynchronous exchange of information between business applications.
* Worked on Swagger API and auto-generated documentation for all REST calls.
* Used NodeJS to sign up for a lightweight webserver to hos the application locally. Used NPM to manage dependencies like adding dependencies, removing some, and updating package.json.
* Used Spring Boot which is radically faster in building cloud Microservices and developing spring-based applications with very less configuration.
* Implementing Spring MVC with Spring Boot which includes writing Controller classes for handling requests, processing form submissions, and performing validations.
* Used Gradle as a build tool automating the building, testing, publishing, and deployment loading all the dependencies from the nexus artifact repository.
* Developed Microservice to provide Restful API utilizing Spring Boot with various data persistence frameworks such as Hibernate, JPA, and messaging engines.
* Integration with Spring security in web application.
* Implemented service methods and SQL queries, PL/SQL to interact with the Oracle Database.
* Development of web modules and middleware components using AWS and spring integration.
* Developed server-side software modules and client-side user interface components deployed entirely in Compute Cloud of Amazon Web Services (AWS).
* Worked on developing AWS cloud formation templates and setting up Auto scaling for EC2 instances and involved in the automated provisioning of AWS cloud environment using Jenkins and chef.
* Used Continuous Delivery/ Continuous Integration tools Docker, and Jenkins to deploy this application to AWS and used GIT for version control of code for incremental development.
* Used Hibernate, object/relational-mapping (ORM) solution, the technique of mapping data representation from MVC model to Oracle Relational data model with a SQL-based schema. Writing service methods and SQL queries, Mark Logic, and PL/SQL to interact with the Oracle DBMS.
* Queried and analyzed data from Datastax Cassandra for quick searching, sorting, and grouping.
* Used Jenkins for CI/CD Continuous Implementation and Continuous Delivery.
* Used Jira to track bugs, prioritize and discuss the team's work in full context.

**Environment:** Java, Spring, Hibernate, Spring batch, Spring Security, Spring Boot, Gradle, JavaScript, ReactJS, HTML5, CSS3, Eclipse, Oracle, Apache Camel, log4j, Junit, Easy Mock, XML, Web Services, SOAP UI, Cassandra, DevOps, AWS, Git, Agile.

**Sify Technologies Limited, Chennai, India Aug 2015 – Dec 2017**

**Jr. Java Developer**

**Responsibilities:**

* Involved in Agile development following SCRUM process, Sprint, and daily stand-up meetings.
* Designed and developed UI using spring view component HTML5, CSS3, Bootstrap, Ajax, jQuery, AngularJS, and Vue.js.
* Built custom UI widgets, directives, filters, and Application logic using AngularJS MVC Architecture.
* Developed multiple enterprise applications, which are developed using Spring MVC framework, Hibernate framework, Prime faces, and Restful web services.
* Implemented Hibernate Template to great extent making use of HQL, Named Parameters, Named Queries, and interfaces such as Expression, Query, and Criteria.
* Used Multithreading and Concurrency and implemented threads while preparing and generating emails.
* Developed Hibernate with Spring Integration as the data abstraction to interact with the database of MongoDB.
* Used Hibernate, object/relational-mapping (ORM) solution and technique of mapping data representation from MVC model to Oracle Relational data model with SQL-based schema.
* Used a Microservice architecture, with Spring Boot-based services interacting through REST and Apache Kafka.
* Developed Microservices using Spring Boot, Netflix OSS, and Spring Cloud and deployed to AWS Cloud.
* Deployed Spring Boot-based microservices Docker container using Amazon EC2 container services.
* Created Stacks using Amazon Cloud Formation templates to launch AWS Infrastructure and resources. Used AWS Lambda to run the code in the AWS.
* Implemented system logging solution using Elastic Search, Kibana, and Logstash.
* Created RESTful web services using Spring RESTful API, sending JSON data between Frontend, and middle-tier Controller.
* Used Jenkins and pipelines to drive all microservices builds out to the Docker registry and then deployed to Kubernetes, Created Pods, and managed using Kubernetes.
* Worked on spinning up AWS EC2 instances, Creating IAM Users and Roles, Creating Auto Scaling groups, Load balancers, and monitoring through Cloud Watch for the applications, S3 buckets, and VPC.
* Used GIT for version control, experience with GIT-Bash and GIT-Hub.
* Performed deployment of applications on WebSphere Application Server.
* Designed and developed a project that reads messages from Kafka topic and applied conversation from JSON to pipe-delimited String data format to be saved in Oracle DB and NoSQL DB.
* Developed Unit test cases using JUnit, Mockito, and Easy mock.

**Environment:** Java, Spring, Hibernate, Spring batch, Spring Security, Spring Boot, JPA, JavaScript, AngularJS, HTML5, CSS3, WebSphere, Eclipse, Oracle, MongoDB, Apache Camel, log4j, Junit, Selenium, XML, Web Services, SOAP UI, Kafka, Jenkins, Git, AWS, Agile.

**EDUCATION:**

Bachelor of Technology, Vellore Institute of Technology, Chennai, India.