

**Sai Avinash**

**Sr. Java Full Stack Developer Contact: +1(601) 852 3755**

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**Professional Summary:**

* 10+ years of experience in Java/ J2EE with a full Software Development Life Cycle – Software analysis, design, architecture, development, testing, deployment, and maintenance.
* Experienced in Design and Development of multi-tier enterprise applications using Java, J2EE, spring, Servlets, JSP, Hibernate, JDBC, and Java Beans.
* Proficient in creating effective web applications using Angular, React.js, Typescript, HTML5, CSS3, JavaScript, Bootstrap, jQuery, JSON, XML and JSTL tags.
* Good working knowledge in Single Page Applications (SPA) using JavaScript frameworks like Angular, and React.js.
* Strong experience of Angular 2/4/ 6/11 and Angular JS, including components, modules, services, and directives.
* Expertise in Java 8/ 9/ 10/ 11 features such as Lambda Expressions, Streams, Methods, and Optional class to reduce the code size and simplify the operations.
* Experience in Microsoft Azure Cloud Computing development and support to speed the application.
* Experience in building isomorphic applications using React.js and Redux on server side.
* Extensive experience in building SPAs with Angular 2 /4 / 6 / 11, utilizing features like routing, lazy loading, and state management.
* Knowledge of Azure Service Bus and Azure Event Hubs for reliable messaging and event streaming.
* In-depth knowledge of React.js, including functional and class components, JSX syntax, and virtual DOM manipulation.
* Extensively worked on coding using Core Java concepts like multithreading, collections, serialization, Synchronization, exception handling, generics, network APIs and database connections.
* In-depth knowledge of React Hooks, such as useState, useEffect, useContext, etc., to handle component state and side effects in a functional component paradigm.
* Proficient in managing MS Azure resources using Azure CLI, Azure PowerShell, and Azure Portal.
* Hands-on experience in using message brokers such as ActiveMQ and RabbitMQ.
* Hands-on experience with Typescript, the superset of JavaScript, to build scalable and maintainable Angular applications.
* Proficient in consuming RESTful APIs and integrating them into Angular applications using HttpClient module and handling asynchronous operations.
* Used ANT, Maven and Gradle scripts for building and deploying the application in web/App servers.
* Proficient knowledge on spring framework modules like Spring Batch, Spring IoC, Spring DAO support, Spring JDBC, Spring ORM, Spring Security, Spring Data, Spring Cloud, Spring JTA, Spring AOP, and Spring Core.
* Hands on experience with AWS Services like ECS, EC2, ELB, VPC, S3, Cloud Front, IAM, RDS, Route 53, Cloud Watch, SNS, Auto Scaling, Elastic Load Balance, AMIs, Dynamo DB, firewalls, routing technologies and DNS, Amazon RDS DB services
* Experience in creating web applications utilizing Spring MVC outline work and Object-Relational Mapping (ORM) framework such as JPA and Hibernate.
* Developed high-concurrency systems utilizing Golang and GoRoutines, optimizing performance and reducing latency in distributed microservices architecture.
* Worked in container based technologies like Docker, Kubernetes and Openshift
* Expertise in Azure Storage services such as Blob Storage, Azure Files, and Azure Disk Storage for efficient data management and storage.
* Knowledge of Azure Functions and Azure Logic Apps for building Serverless applications and implementing event-driven architectures.
* Experience with Apache Kafka and Zookeeper apart from JMS as messaging service.
* Proficient in configuring and managing Azure Virtual Networks, Subnets, Network Security Groups (NSGs), and Virtual Network Gateways for secure and reliable networking.
* Experience in setting up and managing Azure SQL Database, Cosmos DB, or Azure Data Lake for efficient data storage and retrieval.
* Expertise in developing Microservices using Spring Boot and Node JS to build more physically separated modular applications which will improve scalability, Availability, Agility of application.
* Proficient in utilizing databases Oracle, MySQL, SQL Server and composing complex SQL, PL/SQL programs. Great comprehension of NoSQL databases like MongoDB.
* Developed Microservice using Springboot, Gradle, IntelliJ and Pivotal Cloud Foundry
* Experience with Azure PaaS services such as web sites, SQL, Stream Analytics, IoT Hubs, Event Hubs, Data Lake, and Azure Data Factory. Experience in integrating enterprise applications using RESTful, and SOAP Web services.
* Experience in AWS Cloud platform and its features which include EC2 AMI, security groups, EBS Cloud watches, AWS Config, Autoscaling, IAM and AWS S3.
* Familiarity with Azure Virtual Machine Scale Sets (VMSS) for automatic scaling of VMs based on demand.
* Experience with current improvement IDEs, for example, Eclipse, IntelliJ, and spring device suite.
* Experience in Middleware persistence/ORM frameworks like Hibernate/ JPA Entities for mapping Java classes using Hibernate Query Language (HQL), HSQL Named Queries, Criteria and Projections.
* Experience in configuring and deploying Web Applications using IBM WebSphere server, JBoss, Tomcat server and Apache.
* Experience in using Hibernate as an ORM tool to maintain object relational persistence across front-end and Oracle Database, writing queries and creating hibernate mapping (.hbm) files.
* Expertise in Object - arranged outline/examination, UML demonstrating and J2EE designs.
* Strong experience in Agile, Waterfall, Scrum Software Development Life Cycle methodology like Gathering requirements, Designing, Developing, testing, Implementing the web-based applications and UI applications.
* Worked in container based technologies like Docker, Kubernetes and Openshift
* Familiarity with testing frameworks like Jest and Enzyme to write unit tests and perform component testing, as well as using browser developer tools for debugging React.js applications.
* Experience in working with messaging systems like Kafka, Event Sourcing, RabbitMQ and Active MQ.
* Experience in using JSP and Servlets to create web interfaces and integrating apache tools like Kafka.
* Experienced in writing unit test cases using TestNG, Junit, Testing, Mockito and Wrote JUnit Test Cases for challenging environments.
* Knowledge of unit testing of Angular with frameworks like Jasmine and Karma, as well as end-to-end (E2E) testing using Protractor or Cypress for robust code quality.
* Experience in Unit testing, Integration Testing, and generating of test cases for web applications using Junit, TestNG.
* Good team player with excellent communication skills and highly motivated analytical problem solver and troubleshooter with more attention

**Certifications:**

AWS Certified Solutions Architect – Associate certification.

**Technical Skills:**

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| Languages | Java 8/ 9/ 10/ 11, SQL, PL/SQL |
| Mark-up/XML Technologies | HTML5, CSS3, XHTML, JavaScript, React, jQuery, Ajax, Angular JS, Angular 2/4/ 6/9/11, TypeScript |
| Tools & Frameworks | J2EE, Spring, Hibernate, Spring MVC, Spring IOC, Spring AOP, Spring Boot, Spring Batch, Spring Security, JMS, JSF, Junit, TDD, Jenkins. |
| Cloud Environments | MS Azure, Amazon Web Services (AWS), GCP |
| AWS | EC2, Auto scaling, Docker, S3, IAM, VPC, SNS, Lambda, Security Groups, Route53, Cloud Formation, RDS, Dynamo DB, Storage Gateway, API Gateway, Cloud Watch |
| MS Azure | Blob Storage, Azure Files, and Azure Disk Storage, Azure SQL Database, Cosmos DB, Azure Data Lake |
| Web services | SOAP, Restful, Micro Services. |
| Web/Application Servers | Apache Tomcat, IBM WebSphere, JBoss |
| Database: | Oracle, SQL Server, MySQL, MongoDB, MS SQL Server, Cassandra |
| Development Tools (IDEs) | IntelliJ, Eclipse, NetBeans |
| CI/ Build Tools | Ant, Maven, Gradle, Jenkins |
| Testing Tools: | JUnit, JIRA, Soap UI, Postman, Mockito, Cucumber, TTD |
| Version Control | CVS, SVN, GIT, Bit bucket |
| Testing Tools | JUNIT, JMeter, Mockito, TestNG, Jasmine, Karma, Selenium, TestNG |
| OS & Environment | Windows, Linux, UNIX |

**Professional Experience:**

# Client: Verizon, Irving, TX Sept 2022 – Present

**Role: Senior Java Application Developer Project Description:**

In this project, the team was tasked with developing a cutting-edge web application to enhance user experience and streamline business processes for a leading enterprise client. The project involved a complete migration of the existing AngularJS application to Angular 10, enabling the creation of a modern, responsive Single Page Application (SPA) using Angular with NGRX for state management. The new application was designed with a focus on modularity and reusability, leveraging Angular CLI for efficient component generation, and employing custom modules, directives, and services to build a highly interactive user interface.

# Responsibilities:

* Involved in the development of the new application with user interface: (Angular 10 with NGRX).
* We have migrated the complete Angular js to Angular 10.
* Used Angular10 as framework to create a Single Page Application which can bind data to specific views and synchronize data with server using SaaS and angular material.
* Developed Layer 2 networking configurations, including LAG/LACP and Ethernet, to enhance network redundancy, balance traffic loads, and improve failover resilience.
* Developed and optimized L3 networking protocols, including IPv4/IPv6, OSPF, BGP, PIM, and IS-IS, improving routing efficiency and network stability.
* Designed, created, and managed Java-based applications, ensuring smooth operation and maintenance in a live production environment.
* Investigated root causes of issues, whether related to application code, infrastructure, or configuration.
* Collaborated with other teams to troubleshoot complex problems and apply fixes or workarounds.
* Created reusable components, Custom modules, Custom Directives, Pipes, Services in Angular10.
* Extensively used Angular CLI to generate components, routes, pipes and modules.
* Developed test cases for unit testing using tools such as Jasmine and Karma.
* Worked on adding new field in the schema with GraphQL and fixing few bugs in the same area.
* Expertise in Scrum Master, Change Management, Release Management, PLM activities, Warroom Handling, Budgeting and Service Management.
* Worked on Java8 features like Lambda expressions, Streams, filters, optional classes and default methods.
* Maintained Interface compatibility and concurrency in the project using Java 8 features like Concurrency API.
* Used Executor Service Interfaces, ThreadPoolExecutor class for multi-threading& thread resource pooling.
* Involved in developing Restful service API’s end points in microservice architecture.
* Worked with OpenConfig for network management and telemetry, ensuring compliance with standardized models for device configuration and monitoring.
* Implemented RESTful web services. Analyzed the JSON, XML responses using POSTMAN.
* Developed address widget using the JavaScript, REST API’s and Ajax to integrate it with the live person chat application to have the customer information along with the widget providing features of video call, audio call and file sharing.
* Demonstrated our SAAS, engaged in contract negotiations, and presented ROI to C Level Executives.
* Analysed the SQL Server and designed the solution to implement using Scala.
* Handled P1 and P2 incidents, performing root cause analysis, monitoring incident queues, and coordinating with cross-functional teams.
* Resolved priority-based tickets (P1, P2, etc.) according to SLA requirements.
* Developed the Application using design patterns-Singleton, Factory, DAO, DTO prototype and Composite View.
* Involved in Designing and deploying AWS solutions using EC2, S3, RDS, EBS, Elastic Load Balancer, Auto scaling groups. Supporting Systems Infrastructure comprised of Linux OS, AWS, EC2 clusters.
* Utilized AWS Lambda platform to upload data into AWS S3 buckets and to trigger other Lambda functions.
* Experience in deploying Dockerfile to containerized applications to deploy on managed Kubernetes service EKS and AKS.
* Build and enhanced automated test framework using Cypress and Page Object Model concepts
* Familiar with Cucumber, Selenium Web Driver, Selenium commands and X-path and developed grunt tasks to run the unit tests on Jenkins and Used JIRA to assign, track, report and audit the issues in the application.
* Experience in creating web test suites using Jasmine and Karma.

**Environment**: Java 8, J2EE, Spring MVC, Hibernate 4.3, Scala , HTML5, CSS3, JavaScript, AWS (VPC, E2, IAM, Route53, Lambda, Cloud Watch, ELB, S3), RESTful web services, Shell Scripts, Git, Maven, Log4j 2, Oracle 11g, JMS, JBoss, Drools.

# Client: Bank of America, San Francisco, CA Nov 2019 – Aug 2022

**Role: Senior Java Full Stack Developer**

**Project Description:** Created an innovative flooring manufacturer application that streamlines the entire flooring selection and purchasing process. Seamlessly browse and compare a diverse range of high-quality flooring materials, designs, and finishes. This application visualizes different flooring options in real-time through augmented reality integration, allowing users to preview how flooring type would look in their space.

# Responsibilities:

* Worked in ‘Agile Methodology’ in developing and testing the applications during various iterations.
* Collaborated with designers and backend developers to implement user interface designs and integrate front-end components using React.js, HTML5, CSS3, and JavaScript.
* Worked with Java 10 on core and advanced technologies for effective implementation of the applications.
* Proficiently utilized React JS components, Router, Animations, Forms, Events, Keys, and Flux concepts, while also harnessing the capabilities of Angular 11 to enhance the development process further.
* Designing and implementing cloud architectures and solutions using MS Azure services.
* Prepare the MS Azure cloud infrastructure Azure Resource Manager Templates.
* Used Spring Kafka API calls to process the messages on Kafka Cluster setup.
* Worked on writing minimal code in building re-usable forms with their validations using React JS with Redux Architecture.
* Leveraged React Hooks, such as useState, useEffect, useContext, etc., to handle component state and side effects, embracing the functional component paradigm.
* Created Java J2EE application to View Data in MongoDB.
* Installation, configuration of Openshift components to enable monitoring, cluster metrics components like hawkular-cassandra, hawkular-metrics, heapster.
* Designed and implemented highly available and scalable solutions using Azure services like Virtual Machines, Virtual Networks, Load Balancers, and App Services.
* Integrated Apache Kafka for real-time data streaming and processing, enhancing the application's ability to handle high-volume data with low latency.
* Developed Kafka producers and consumers using Spring Kafka, ensuring efficient message publishing and consumption within a distributed system architecture.
* Implemented RESTful services for data interchange between microservices, utilizing Java Spring Boot for the creation of scalable and maintainable APIs.
* Enhanced system resilience and reliability by utilizing Kafka Streams for stream processing and real-time data transformation.
* Employed Kafka Connect for integrating with external data sources and sinks, streamlining data ingestion and export processes.
* Implementing or exposing the Micro service architecture with Spring Boot based services interacting through a combination of REST and Apache Kafka message brokers.
* Extensively used Java 11 features such as lambda expressions, parallel operations on collections, multithreading and for effective sorting mechanisms and Streams to store and process the data
* Designing RabbitMQ queues and exchanges and binding relation between them.
* Implementing and configuring Azure Storage solutions, such as Blob Storage, Azure Files, and Azure Disk Storage, for efficient data management and storage.
* Built SPAs with React.js, utilizing React Router for efficient client-side routing and navigation.
* Worked on CI/CD tool Jenkins to automate the build process from version control tool into testing and production environment.
* Responsible for designing, developing, testing, operating, and maintaining products using React.js framework.
* Developed and maintained web applications using React.js, leveraging its core concepts, including components, state management, and virtual DOM manipulation.
* Used RabbitMQ open source message broker software that implements the Advanced Message Queuing Protocol (AMQP).
* Created various MongoDB collections and wrote services to store and retrieve user data from for the application on devices and used Mongoose API in order to access the MongoDB from NodeJS.
* Used Kubernetes to orchestrate the deployment, scaling, and management of Docker containers.
* Used **Gradle** for build framework and **Jenkins** for continuous build system.
* Setting up and managing Azure SQL Database, Cosmos DB, or Azure Data Lake for reliable and performant data storage and retrieval.
* Worked extensively in writing and debugging complex stored procedures, triggers, Inner Joins, Outer Joins, views and user defined functions.
* Used Spring Kafka API calls to process the messages on Kafka Cluster setup.
* Developed various ReactJS components to help build the functionality and UI behavior using JavaScript.
* Used Maven build tool to build and deploy the application and Jenkins for continuous integration. Developed, upgraded and maintained API’s based on Restful Web services and worked with unit testing of React.JS applications using Jest.
* Automate report generation in MongoDB using JavaScript, shell scripting, sed, java.
* Developed test cases using TestNG and Test-Driven Development (TDD). Used JIRA for bug tracking, issue tracking and project management. **Environment:** React.js, HTML5, CSS3, JavaScript (ES6+), Java 10, Spring Boot, RESTful Web Services, Apache Kafka, MS Azure, Azure Resource Manager Templates, Kubernetes, Redux, MongoDB, Mongoose, Restful, CI/CD (e.g., Jenkins), Maven, Jest, TestNG, TestDriven Development (TDD), and JIRA.

# Client: Comcast, Philadelphia, PA Apr 2017 - Oct 2019

**Role: Java Full Stack Developer**

**Project Description:** This project functionalities are electronic health record (EHR) management, patient registration, appointment scheduling, prescription and medication management, laboratory and diagnostic test result tracking, billing and insurance claims processing, and integration with external systems like pharmacy networks and medical devices. The application focuses on providing secure, efficient, and accurate information management and healthcare service delivery to improve patient care, streamline administrative processes.

# Responsibilities:

* Involved in Design, Documentation, Coding and Testing of the application in Agile Methodology.
* Writing the code using Lambda Expression on Java 9.
* Designed and implemented the UI using HTML, JSP, JavaScript, AJAX, and jQuery and Angular 9.
* Created new library with Microservices architecture using Rest APIs, spring boot, and implemented Spring Security.
* Developed and implemented a cloud solution to provide and retrieve SaaS applications.
* Developed Microservices using Spring Boot, Spring Security, and deployed to AWS cloud.
* Enhanced legacy application by building new components in Angular 6 and typescript.
* Developed Single Page Applications (SPA) using Angular 6, TypeScript, HTML5, CSS3, and Bootstrap.
* Performed optimization techniques in Angular 9, including lazy loading modules, code splitting, and caching strategies.
* Developed applications using Web services in IntelliJ IDE in Java Programming language, JavaScript language, Spring, Spring Boot applications.
* Developed single page applications using Angular 9, Typescript, web pack and grunt.
* Used Spring Security for Authentication and Authorization of the application.
* Detected and rectified problems and glitches within Angular 6 applications by conducting comprehensive debugging and issue resolution, ensuring seamless functionality and user contentment.
* Managed Amazon Web Services like EC2, S3 bucket, ELB, Auto-Scaling, SNS, SQS, AMI, IAM, Dynamo DB, Elastic search, Virtual Private Cloud (VPC) through AWS Console and API Integration.
* Created S3 buckets and managed its policies. For AWS backup and storage used S3 bucket and Glacier.
* Developed powerful Single Page Application (SPA) and dynamic responsive Web Application with Angular 9.
* Created IAM roles for deployment and integration with Lambda applications pertaining with FASS commands to automate ECS applications.
* Integrating Angular applications with CI/CD pipelines using tools like Jenkins, and Git CI/CD.
* Used Maven for build and Jenkins for continuous integration.
* Written and modified SQL queries and stored procedures for the application to communicate with Database. Oracle used as backend, Worked on SQL queries for persistence of Business Objects.
* Wrote the SQL statements for manipulating databases, using JDBC.
* Used Git as a version control system and Hudson for continuous build integration.
* Unit testing of Angular components, services using karma-test- runner and Jasmine.
* Wrote test cases using TestNG as the Unit testing framework and Selenium as automation testing for the developed Java applications.
* Tested Rest web services using postman, and SOAPUI.
* Execution of automated test scripts using JMeter based on business/ functional specifications.
* Used JIRA as ticketing system tool to track work items and Log4J for logging.

**Environment:** Java 9, HTML, JavaScript, AJAX, jQuery, Angular 6, Microservices Architecture, Rest APIs, Spring Boot, Spring Security, AWS Cloud, TypeScript, HTML5, CSS3, Bootstrap, IntelliJ IDE, Spring, Grunt, AWS, EC2, S3, ELB, Auto-Scaling, SNS, SQS, AMI, IAM, DynamoDB, VPC, Glacier, IAM Roles, CI/CD (Jenkins, Git), Maven, SQL, Oracle, JDBC, Git, Hudson, Karma, Jasmine, TestNG, Selenium, Postman, SOAPUI, JMeter, JIRA, Log4J.

# Client: QuinStreet, Pune, India Jul 2015 - Feb 2017

**Role: Java Developer**

**Project Description:** Developed an all-encompassing Art and Design application, a creative place where imagination thrives. This platform merges cutting-edge digital tools with traditional artistic techniques, enabling users to craft stunning visuals and immersive experiences effortlessly. From intricate illustrations to interactive multimedia installations, this application provides a versatile canvas for artists and designers to collaborate, innovate, and captivate audiences.

# Responsibilities:

* Following agile methodologies and participating in sprint planning, stand-ups, and retrospectives.
* Worked on the front-end look and appearance for the screens using JavaScript, AJAX, Angular JS, and jQuery.
* Used standard J2EE design patterns and Model-view-controller (Spring MVC) in application design.
* Implemented Spring MVC flow to interact with different modules and extensively used Spring AOP and Dependency injection during various modules of project.
* Implemented AWS IAM for managing the credentials of applications that runs on EC2 instances. Creation of REST Web Services for the management of data using Apache CXF.
* Worked on AngularJS which combines web applications with Model View Controller capability to make development and testing of code efficient.
* Developed the application using NetBeans IDE and spring tool suite.
* Implemented RESTful Web Services and associated business module integration for getting status of claim report.
* Used Hibernate Transaction Management, Hibernate Batch Transactions and Hibernate Cache Concepts.
* Implementing authentication and authorization mechanisms using Spring Security.
* Implementing caching mechanisms for improved performance using Spring Cache or other caching libraries.
* Conducting code reviews and ensuring code quality and adherence to best practices.
* Working with Hibernate ORM to interact with databases and write efficient SQL queries.
* Configuring and managing project dependencies using Maven.
* Implementing and maintaining CI/CD pipelines using Jenkins for automated builds, tests, and deployments.
* Collaborating with Git for version control and managing code repositories.
* Integrated Spring Boot with various databases such as MySQL, PostgreSQL, or MongoDB using ORM frameworks like Hibernate. Used log4j for logging error/debug messages and managing them.
* Used JIRA for defect management and to keep track of bugs and issues.

**Environment:** Java 8, spring, Spring Boot, AngularJS, HTML5, CSS3, Hibernate, Maven, Jenkins, Git, Log 4j, Jira.

# Client: Langoor, Bangalore, India Sep 2013 - Jun 2015

**Role: Software Engineer**

**Project Description:** I was part of developing a game-changing Food and Beverage application that redefines the culinary experience. This application connects food enthusiasts with a diverse array of recipes, cooking tutorials, and interactive meal planning tools, making home cooking a delightful adventure. With integrated grocery lists and personalized dietary preferences, users can effortlessly create and savor delectable dishes.

# Responsibilities:

* Developing and designing web pages with HTML5 markup, ensuring proper structure, accessibility, and compatibility across different browsers.
* Styling and formatting web pages using CSS3, implementing responsive design, and ensuring consistent visual presentation.
* Writing efficient and maintainable Java code, implementing business logic, handling data manipulation, and integrating with other technologies.
* Utilizing the spring framework for dependency injection, managing application configuration, and implementing various spring modules such as Spring Core, Spring Security, and Spring Data.
* Developing web applications using the Model-View-Controller (MVC) architectural pattern with Spring MVC, handling HTTP requests and responses, and managing application flow.
* Integrating Hibernate ORM for object-relational mapping, managing database interactions, and ensuring data persistence.
* Involved in Unit, Integration and Performance Testing for the new enhancements by developing test cases using JUnit framework for entire application testing.
* Actively used the defect tracking tool JIRA to create and track the defects during QA phase of the project.
* Designed and developed the Presentation layer using Angular and written logics using Typescript.
* Used Spring Boot for developing individual component and deployed them individually on AWS using Docker.
* Administered and deployed applications into WebSphere Application Server.
* Used Maven Dependency to include all the jar files, Logging of Application was done using Log4J Worked with the Node package manager along with Karma, Jasmine for test and build.
* Performed End to end (Such as integration, functional, regression, system and UAT) testing and logged the defects in JIRA and reported to Project Manager.

**Environment:** JDK 8 (Java 1.8), HTML, JSP, JavaScript, AJAX, jQuery, Angular 2, Spring Boot, Spring Security, AWS Cloud, TypeScript, HTML5, CSS3, Bootstrap, IntelliJ IDE, Web services, Spring, Grunt, Spring Security, AWS, EC2, S3, ELB, Auto-Scaling, SNS, SQS, AMI, IAM, DynamoDB, VPC, Glacier, IAM Roles, CI/CD (Jenkins, Git), Maven, SQL, Oracle, JDBC, Git, Hudson, Karma, Jasmine, TestNG, Selenium, Postman, SOAPUI, JMeter, JIRA, Log4J.