# Dinesh Avvaru

**Java Full Stack Developer**

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# SUMMARY:

* Over 12+ years of experience **working** with Java/J2EE applications in the areas of **Analysis, Design, Development, Coding, Implementation and Testing** of web applications.
* Goal driven, self-organized developer with comprehensive understanding of various **SDLC methodologies**

such as **Waterfall, Safe** and **Agile.**

* Well versed in designing **Use cases, Class diagrams, Sequence** and **Collaboration diagrams** for multi- tiered, object-oriented system architectures utilizing Unified Modeling Tools (UML).
* Hands on experience with **Object Oriented Concepts, Object Oriented programming with java, Object Oriented Design,** and **Implementation**.
* Expertise in developing and managing **Microservices** using Spring Cloud and **Spring boot 2**.
* Used **Zip kin server, Grafana and Prometheus** for monitoring the **microservices.**
* Expertise in developing Single Page Applications **(SPA)** with **Angular 8, React JS, Node JS, Backbone JS, Express JS** by using reusable components.
* Experience in working with API’s like **REST** and **SOAP.**
* Extensively worked on **Hibernate** for connecting to databases and improved the query performance by

# hibernate cache.

* Expertise in Application development and **Cross-Platform** (Web & Client-Server) application design using various frameworks such as **Spring Boot, Spring MVC, Spring Cloud, and Spring Security.**
* Experienced with various modules in spring framework like **Spring IOC** (Dependency Injection), **Spring DAO** (**JDBC, ORM**), **Spring Boot**, **Spring AOP** and **Spring Batch.**
* Worked extensively in spring cloud technologies like **Eureka Server**, **Hystrix** for fallback and cloud config.
* Expertise in **RDBMS** like Oracle and SQL Server including **SQL**, **Stored Procedures** and **PL/SQL** and

# PostgreSQL.

* Experience working in with an Agile Lifecycle Management tool such as Rally Foundation.
* Utilized **Rally** for metrics/reports, user stories and defect.
* Worked Extensively in **No-SQL** databases like **MongoDB** and **Dynamo DB.**
* Experience in implementing various design patterns including **Test and Domain Driven Development, Singleton, Factory, Builder, Adapter, Saga, CRQS, Strangler Design Pattern.**
* Professional in creating **Templates, Mockups** and **Prototypes, Web Interfaces, Layouts** and **Flow of Future Pages**.
* Proficient in developing web-based User Interface **(UI)** to provide best User Experience **(UX)** with the help of **Angular 8, HTML5, CSS3, JavaScript, jQuery and** making webpage **Cross browser compatible.**
* Experienced in using Front End editors like **Dreamweaver, Visual Studio, Notepad++.**
* **Error handling** is properly handling both in frontend and backend frameworks by fall back methods.
* Tested the application by performing unit and integration testing by **JUnit, Mockito and Wire Mock.**
* Experience in **Apache Kafka, Active MQ** and **RabbitMQ** for interservice communication across multiple services.

# Experience in Oracle supplied packages, Dynamic SQL, Records and PL/SQL Tables.

* Experience to building scalable, stateless, resilient & highly available applications and services like AWS, and **Heroku**.
* Used **log4j, slf4j** along with **ELK** stack for log aggregation and log analysis and for log dashboard.
* Virtualized the serves using **Docker** for the test environments and environments needs, also configuration automation using containers.
* Major responsibilities include getting requirement from user, developing Crystal Reports maintaining proper documentation of the reports for future reference.
* Involved in **Test-Driven Development (TDD)** and **Behaviour Driven Development (BDD)** approach**.**
* Expertise in CI/CD tools like **Docker, Jenkins, and Kubernetes** for container creation and managing.
* Experience in using **AWS SDK** for connection to Amazon S3 buckets as it is used as the object storage service to store and retrieve the media files related to the application.
* Good familiarity with **AWS Lambda** event-driven, server less computing platform to manage the servers and run the code in the **AWS**.
* Extensive experience in Amazon Web Services **(AWS)** cloud computing service it includes Amazon EC2, Amazon Simple DB, Amazon RDS, Amazon Elastic Load Balancing, Amazon SQS, AWS Identity and Access Management (IAM), AWS Cloud Watch, Amazon EBS and Amazon Cloud Front.

# TECHNICAL SKILLS:

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| --- | --- |
| **Programming Languages** | Java 8,11/J2EE, SQL, PL/SQL, C, C++, Python |
| **Java Frameworks** | J2EE, Spring MVC, Spring Boot, Hibernate, Spring AOP, Spring DAO, Spring Core, Spring Security, Spring REST, Log4j, Apache Kafka, JUnit,  Mockito, Microservices, MEAN and MERN. |
| **Scripting Languages** | Python, JavaScript, Typescript, jQuery |
| **Web Technologies** | HTML5, CSS3, Bootstrap, JSP, Ajax, NodeJS, Express, ReactJS, AngularJS, Angular 8 |
| **Web/Application Servers** | Apache Tomcat, WebSphere, Web Logic, Jetty, and Undertow. |
| **IDE’s** | Visual Studio Code, Eclipse, Net Beans, IntelliJ, STS, Data grip |
| **Databases** | Oracle, MySQL, PL/SQL, MongoDB, DynamoDB, PostgreSQL |
| **Version Control** | GitHub, Bit bucket |
| **Cloud Computing** | Amazon EC2, Amazon S3, Amazon RDS, AWS Lambda, Amazon SQS, AWS Identity and access management, AWS Cloud Watch, Heroku, Open |
| **Build Tools** | Maven, Gradle shift |

**EDUCATION:**

* + Bachelor of Technology in Computer Science and Engineering, India.

# Accomplishments:

* + Successfully achieved the Oracle Certified Java Professional (OCJP) certification on the Java platform.
  + Received an award for excellent performance, hard work, and success for the year 2021.
  + Attained the Star Performer Award at Net cracker in 2018.

# PROFESSIONAL EXPERIENCE:

**Vyts, Inc (Texas, USA)**

**Role: Full Stack Java Developer**

**Client: U.S. Department of Agriculture**

**April 2024 – Till now**

**Responsibilities:**

* + Design, develop, and implement microservices-based solutions using Java 11, Spring Boot, REST APIs and Microservices.
  + Create RESTful APIs to enable communication between microservices and external systems, adhering to best practices and standards.
  + Ensure secure API endpoints by implementing authentication and authorization mechanisms.
  + Handle various HTTP status codes and implement comprehensive error handling.
  + Cross-browser client-side development experience using HTML5, CSS3, JavaScript and React JS.
  + Worked on React JS Virtual Dom and React views, rendering using components which contains additional components called custom HTML tags.
  + Used React JS for templating for faster compilation and developing reusable components.
  + Integrate microservices with databases using technologies like Hibernate or Spring Data, ensuring data consistency and efficiency.
  + Configured spring beans by Dependency Injection (DI) and Inversion of Control (IOC) principles.
  + Design and develop RESTful APIs with proper error handling for various HTTP status codes using Postman for testing and validation.
  + Used a Microservices architecture, with Spring Boot-based services interacting through a combination of REST and Spring Boot.
  + Developed application using Spring MVC- Implemented Various Controllers, used spring's component- scan and auto wiring functionalities.
  + Containerize microservices using Docker for easy deployment, scaling, and management.
  + Working with different teams such as the back-end teams to integrate with various APIs.
  + Working closely with cross-functional teams including frontend developers, DevOps engineers, and quality assurance testers to deliver high-quality software solutions.
  + Utilizing Swagger to document APIs, making them easily understandable and accessible for consumers.
  + Worked in container-based technologies like Docker and Kubernetes.
  + Deploy and manage microservices in a Kubernetes environment for orchestration and scaling.
  + Use Helm for managing Kubernetes applications.
  + Using Jenkins Amazon Web Services (AWS) code deploy plugin to deploy to AWS.
  + Deployed and monitored scalable infrastructure on Amazon web services specifically on AWS.
  + Utilized cloud watch to monitor resources such as EC2, CPU memory, Amazon to design high availability applications on AWS across availability zones.
  + Launched AWS instances using auto-scaling for scaling up and scaling out instances while deploying Micro Services into production environment.
  + Use Postman for API testing and validation, ensuring robust and error-free API implementations.
  + Set up and maintain Jenkins CI/CD pipelines to automate build, test, and deployment processes, integrating with GitHub repositories for version control.
  + Developed the user authentication and authorization by using Spring Security OAuth2.0 and JSON Web Token (JWT).
  + Experienced in integrating SonarQube with CI/CD pipelines to automate code quality checks during the build and deployment process.
  + Configure monitoring and logging solutions to track microservices performance, identify issues, and facilitate troubleshooting.
  + Using Maven for dependency management and building the project.
  + Followed Agile methodology and involved in daily scrum meetings, sprint planning, showcases and retrospective and used JIRA as a tracking tool for the sprints.
  + Configure monitoring and logging solutions to track microservices performance, identify issues, and facilitate troubleshooting.
  + Developing and debugging Java server-side code using IDE.
  + Writing unit tests and integration tests to ensure the reliability and stability of microservices. **Environment:** Java 11, Spring Boot, Microservices, Restful API, JSON, Postman, Kubernetes, Docker, Bitbucket, SQL, PL/SQL, Git, Maven, Soap UI, AWS, Jenkins, OAuth, JWT, CI/CD Pipelines, Agile, SonarQube, HTML5, CSS3, JavaScript, React JS.

**Monty Mobile (Dubai, UAE)**

**Role: Software Engineer Team Lead**

**Client: Etisalat by e& Sep2020 – March 2024**

# Responsibilities:

* + Designing and implementation of multi-tier applications business logic using web-based technologies like Java 11, Spring Boot, REST APIs and Microservices.
  + Extensively using different spring modules like Spring Boot, Spring JPA which allows to access and persist data.
  + Implemented Spring boot microservices to process the messages into the Kafka cluster setup.
  + Using LDAP protocol which provides communication from one service to other services servers and used for authentication.
  + Implemented Kafka producer and consumer applications on Kafka cluster setup with help of zookeeper.
  + Have knowledge on partition of Kafka messages and setting up the replication factors in Kafka cluster.
  + Securing the API's by implementing Oauth2 token-based authentication using spring security.
  + Used Spring Kafka API calls to process the messages smoothly on Kafka cluster setup.
  + Using Apache Drools Rules Engine for writing Business rules Validation.
  + Install, configure, test, monitor, upgrade and tune new and existing PostgreSQL databases.
  + Developing Apache Camel routes and defined JMS endpoints for message processing and routing.
  + Extensively using Oracle database to develop and monitor jobs, planning to migrate the current oracle data base to PostgreSQL.
  + Using H2 java database embedded in java applications, configured to run as in-memory database.
  + Proactive in updating the latest security patches to database, which are provided by PostgreSQL instances effectively.
  + Worked in container-based technologies like Docker, Kubernetes and OpenShift.
  + OpenShift virtualized PaaS provider- useful in automating the provisioning of commodity computing resources for cost and performance efficiency.
  + Working with different teams such as the back-end teams to integrate with various APIs.
  + Developed unit tests and integration tests using Junit and Mockito frameworks and using Postman to test API functionality.
  + Using Bamboo for continuous integration and continuous deployment allowed building, integrating, and testing the source code.
  + Used Agile Methodology for the day-to-day management of and administration of Rally; workflow, user accounts; application changes such as values, dashboards, reports; security, monthly account maintenance around external application connections and the application to align with the organizational structure.
  + Experience with container-based deployments Docker, working Docker images and Docker Hub.
  + Involved in packaging the developed services into Docker using Java 11 and Spring Boot.
  + Using Maven for dependency management and building the project.
  + Developing and debugging Java server-side code using IDE.
  + Writing Unit Tests and deploying production level code through the help of GitHub as version control.
  + Using SLF4J components for logging and capture the logs that include critical business-related information.

**Environment:** Java 11, SDLC, Spring Boot, Spring IOC, Spring AOP, Spring, Restful Web Services, Hibernate, JSON, Postman, OAuth 2, Jenkins, PostgreSQL, Data Grip, Docker, OpenShift, Git, Maven, Apache Kafka, Splunk, SLF4J.

**Netcracker (Hyderabad, India) Role: Full Stack Java Developer**

**Client: T Mobile & Tele net July 2017 - Sep 2020**

# Responsibilities:

* + Developing self-contained, reusable, testable modules, and components using dependency chain.
  + Cross-browser client-side development experience using HTML5, CSS3, JavaScript and Angular.
  + Moved existing Angular6 controllers to Angular8 components for more responsive and less dependency.
  + Used NPM for installing required NodeJS modules and other published Angular NPM modules.
  + Updated the application with new features of Angular 8.
  + Created typescript reusable components and services to consume RESTAPIs using component based. Architecture using Angular 8.
  + Generated server-side PL/SQL scripts for data manipulation and validation and materialized views for remote instances.
  + Slimming and fine tuning the enterprise JBoss application server image.
  + Worked on some of the new features of Angular 8 like new if else syntax, ng-templates, and form validators.
  + Implemented client-side Interface using Angular 8 and NodeJS to structure JavaScript code in an MVC.
  + Performed testing using Protractor, Jasmine, Karma, and involved in code reviews.
  + Worked in using React JS components, Forms, Events, Keys, Router, Animations, and Flux concept.
  + Used React JS for templating for faster compilation and developing reusable components.
  + Leveraged the monolithic application to microservices with help of strangler design pattern, SAGA, CRQS, Domain Driven and Event driven design pattern.
  + Developed application using concepts of Single page application using MEAN STACK (Angular 8, NodeJS, MongoDB, and Express).
  + Driving replacing every other data platform technology using Snowflake with lowest TCO with no compromise on performance, quality, and scalability.
  + Developed Talend MDM jobs to populate the claims data to data warehouse - star schema, snowflake schema, Hybrid Schema.
  + Utilized Java 8 features like Lambda expressions for collection evaluation and comparing the data, Stream API for Bulk data operations on Collections which would increase the performance of the application.
  + Used Parallel operations on collections for effective sorting mechanisms and to change the sequential stream flow of threads while session establishment.
  + Expertise in developing Microservices with help of spring boot 2 manages by spring cloud technologies.
  + Expertise in Eureka server for service registry, Hystrix dashboard for circuit breaker, spring cloud config for external configuration and cloud sleuth for tracing calls.
  + Developed Restful services using Spring Framework and handled access-control features like authentication and authorization by using Spring Security, OAuth 2.0 with JWT.
  + Experience in using Redux to manage the application state and applying middleware such as redux-promise, Redux-Thunk and Redux saga.
  + Created NodeJS middleware application server to encapsulate modern JS widget framework and control set.
  + Expertise in designing microservices using 12 factors design principles and worked on singleton, prototype, builder, bulkhead pattern, blue-green deployment, and circuit breaker pattern.
  + Used Bulk collections for better performance and easy retrieval of data, by reducing context switching between SQL and PL/SQL engines.
  + For communication between multiple services, I used Kafka and RabbitMQ messaging systems as pub-sub and feign, Rest Template for synchronous communication.
  + Extensively used bulk collection in PL/SQLZZQL and NoSQL Database like MongoDB to manage extremely large data.
  + Designed, Configured, and deployed Amazon Web Services (AWS) for multiple applications utilizing the Amazon cloud formation templates.
  + Using Jenkins Amazon Web Services (AWS) code deploy plugin to deploy to AWS.
  + Created event driven jobs using AWS lambda functions for migrating data across multiple S3 buckets of cross origin, DynamoDB, SQS with python.
  + Experience in CI/CD tools like Docker, Jenkins, and Kubernetes for building and managing containers.
  + Used log aggregators like ELK stack (Elastic Search, Log stash, and Kibana) for log analysis along with slf4j and log4j for debugging.
  + Experience in writing unit tests using JUnit and Mockito.
  + Microservices are implemented on Red Hat Open Shift based on Kubernetes and Docker to achieve Continuous Delivery.
  + Performed unit testing system testing user acceptance testing UAT for crystal reports.
  + Performed accessibility testing based on accessibility standards: WCAG 2.0, ADA Section 508.
  + Worked on Open Shift for container management and to enhance container platform multi tenancy.
  + Tested the performance of our API using Soap UI, Postman, and JMeter.
  + Used JIRA tool for Issue/bug tracking, monitoring of work assignment in the system.
  + Experience on implementation of version control software GIT repositories and Maven build tool.

**Environment:** Agile, HTML, CSS, JavaScript, Typescript, React.JS, Angular 8, jQuery, Protractor, Jasmine, Karma, Java 8, Microservices, spring boot 2, spring cloud, Eureka server, Hystrix, Spring Security, OAuth 2.0 with JWT, Kafka, RabbitMQ, Oracle, PL/SQL, AWS, DynamoDB, SQS, Open Shift, Docker, Jenkins, Kubernetes, ELK stack, slf4j, log4j, JUnit, Mockito, Soap UI, Postman, JMeter, JIRA, GIT

**Monty Mobile (Bangalore, India) Role: Software Engineer**

**Client:9mobile March2016 – July2017**

# Responsibilities:

* Expertise in React JS components, Forms, Events, Keys, Router, Animations, Redux, and Flux.
* Developed single page applications using react redux architecture.
* Utilized Angular 8 framework and Web pack module loader to create a Single Page Application (SPA) which can bind data to specific views and synchronize data with server.
* Practicing consulting on Snowflake Data Platform Solution Architecture, Design, Development, and deployment focused to bring the data driven culture across the enterprises.
* Enhanced legacy application by building new components in Typescript and Developed single page applications using Angular 8, Typescript, web pack and grunt.
* Well versed with Snowflake features like clustering, time travel, cloning, logical data warehouse, caching etc.
* Enhanced application performance by Angular 8 Component based development in view of future Angular framework transitions.
* Used Redux form to manage form state in Redux.
* Implemented Initial setup and component migration to Redux.
* Worked with JASMINE in testing and Protractor for unit testing angular 8 modules.
* Developed user interface by using the React JS, Flux for SPA development.
* Implemented client-side Interface using React JS.
* Developed Mapping for Data Warehouse and Data Mart objects.
* Worked in using React JS components, Forms, Events, Keys, Router, Animations and Flux concept.
* Build React components and stand-alone functions to be added to any future pages.
* Responsible for developing a front-end application using React JS and FLUX architecture for internal teams productivity use.
* Experienced in React JS and working with React Flux architecture.
* Expertise in Redux-Thunk and Redux-Saga for integrating the axios with Redux Store.
* Involved in implementation of MVC pattern using JSP and Spring Controller and developed business objects using Spring IOC, Spring MVC and Spring AOP.
* Worked on SOAP and Restful Services using WEB API which return Jason data.
* Implemented SOA architecture with Web Services using SOAP, JAX-WS, WSDL, UDDI and XML.
* Configured spring beans by Dependency Injection (DI) and Inversion of Control (IOC) principles.
* Involved in implementation of MVC pattern using Spring Controller and developed business objects using Spring IOC, Spring boot, Spring Batch and Spring Cloud.
* Working on different technologies like Java Multithreading, collections, Core Java, SQL, Stored Procedures, XML Parsing, Generating XML Requests.
* Implemented J2EE design patterns like DAO, Abstract, Session Facade, and Factory Pattern and Singleton.
* Developed 7 microservices from start to finish and made those fault tolerant and resilient by applying sidecar.
* Performed ADA Accessibility testing by using assistive technologies.
* Used Rest Template, Feign, and Web Client for Synchronous and ActiveMQ for 0Asynchronous communication.
* Implemented vivid design pattern like Domain Driven, Observability design, Decomposition Pattern, Integration patterns, Database patterns and Cross cutting concern patterns.
* Worked with Hibernate for data source configuration written many HQL for extracting the data.
* Expertise in writing complex SQL and PL/SQL queries for retrieving data from Oracle database.
* Storing and Extracting logs from SPLUNK for easy search, reports, dashboard, and alerts.
* Testing rest API’s with help of cucumber, Wire Mock and JMeter for performance testing.
* Worked on Jenkins and Docker for CI / CD of the microservices developed and managing them.
* Used AWS SNS for fully managed messaging queue which decouples and scale micro services, distributed systems and server less applications.
* Worked on AWS Database Migration Service for transferring the on-premises server to Cloud.
* Expertise in Executing the AWS Lambda functions to run the code to perform daily routine activities.
* Used Amazon API Gateway to build, deploy and managing API calls from external web services. **Environment:** HTML5, CSS3, Angular 8+, Bootstrap, spring, Hibernate, Restful API, REST, GitHub, SQL, PL/SQL. JMeter, Splunk, React JS, Redux, Redux-SAGA, Spring MVC, Spring AOP. Spring Batch, Factory, Observability, Rest Template, SOA, Multithreading.

**Mega soft Ltd (Hyderabad, India) Role: Java/J2EE Developer**

**Client: TuneTalk**

**July 2014 – March 2016**

# Responsibilities:

* + Used agile practices and Test-Driven Development techniques to provide reliable, working software early.
  + Used angular-cli tool to configure project and building it for development of Angular apps using Angular7+.
  + Integrated the different pages to be a single page application using Angular 8+.
  + Designed and developed Data Stage ETL Jobs to extract data from Oracle, DB2 & Sybase.
  + Created Typescript reusable components and services to consume API's using Component based architecture.
  + Worked with Typescript as part of migration from Angular JS to Angular 8+.
  + Data Warehouse is implemented using sequential files from various Source Systems.
  + Created responsive web pages using Bootstrap and wrote client-side application in a clean MVC model.
  + Implemented Two-way databinding in which helps the application handle the automatic synchronization of data between the model and view components using TypeScript.
  + Analyzed and designed a scalable system based on Object Oriented Concepts, OOAD and the various J2EE design patterns.
  + Experience with Snowflake cloud data warehouse and AWS S3 bucket for integrating data from multiple source system which include loading nested JSON formatted data into snowflake table.
  + Achieved scalable websites by focusing on accurate implementation of React JS and Redux.
  + Design and implementing Model view controller (MVC) architecture using spring framework.
  + Wrote Hibernate classes, DAO's to retrieve & store data, configured Hibernate files.
  + Used Jenkins Jobs for build automation to compile and generate EAR, JAR and WAR files.
  + Involved in raising questions for business, getting answers from them, bug fixing, and tracking is done by JIRA.
  + Developed Restful web services using JAX-RS, Apache CXF and spring frameworks and persistence using Hibernate and JPA ORM frameworks.
  + Jersey implementation of JAX-RS is utilized to develop Restful Web services.
  + Involved in developing of test procedures for unit testing and testing of the module.
  + Developed RESTful Web Services with JAX-RS using Spring Boot and Micro Services Architecture and worked on testing the Restful APIs using tools like POSTMAN.
  + Designed and developed application using various Spring framework modules like Spring IOC, Developed Controller Classes using Spring MVC, Spring AOP, Spring Boot, Spring Data modules and handled security using Spring Security, Heroku.
  + Implemented the authentication and authorization of the application using Spring Security and Oauth2.
  + Used Spring IOC framework for Dependency Injection and Spring AOP for logging purposes.
  + Implemented Core Java concepts like Multithreading, Concurrency, Exception Handling and Collections wherever necessary in the application.
  + Implemented Batch jobs to deal with large number of chunks using Spring Batch Framework to execute the similar jobs simultaneously.
  + Developed RESTful web services to retrieve JSON documents related to customer and consumed SOAP API.
  + Developed test cases for unit testing in the integration layer using Mockito and Cucumber.
  + Involved in various phases of Software Development Life Cycle including Heroku.
  + Used Gradle for build, cruise control is used continuous building. Used GIT as version control system for source code and project documents.

**Environment:** Angular6/7, HTML5, CSS3, ES6, Bootstrap, RESTful API, REST, GitHub, SQL, PL/SQL, Spring Boot, Micro Services, POSTMAN, Spring IOC, Spring Security, Oauth2, JSON, SOAP, Mockito, Cucumber, GIT, Gradle, Jenkins.

**Tele Arc Technologies (Hyderabad, India) Role: Java/J2EE Developer**

**Client: Lanka Bell Jan 2013 - July 2014**

# Responsibilities:

* + Developed web-based user interfaces for Revenue Assurance and Optimal Routing Projects using Servlets, JSP, Struts framework and HTML bases client and server application.
  + Providing technical and functional support to testing teams.
  + Developed User Interface reports using Pentaho.
  + Co-ordinate with Data Base team to build and maintain database queries as per the requirements for application.
  + Resolved customer complaints regarding application features in a timely manner.
  + Worked closely with systems analysts, engineers, and programmers to understand limitations, develop capabilities, and resolve software problems.

**Environment:** Java 7, Servlets, JSP, Struts 1.2, Pentaho, Apache Tomcat, JSP, JavaScript, jQuery, HTML, CSS, JIRA, SVN & ANT.