# **Pavan Kumar**

**Java Full-Stack Developer**

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# **Professional Summary:**

* Over 5 years of experience as a software developer including **Analysis, Design, Development and Testing** of Web-Based **Distributed and Enterprise** Applications.
* Strong hands on experience in designing the Front-end pages **HTML, CSS,** **JQuery, JSF, AJAX and scripting frameworks like Typescript, Node JS, Angular JS 2.0/4.0, React JS and Ember JS.**
* Proficient in developing **Responsive Web Design using CSS3 Media Queries and Bootstrap**.
* Strong experience in using JavaScript libraries like **JQuery and JQuery UI.**
* Expertise in distributed, secure and scalable application development using Java, J2EE framework technologies like **Spring IOC, Spring MVC, Spring Data, Spring Boot, Spring Cloud, Spring Security, Spring-Rest services and spring Data- Hibernate integration.**
* Diverse experience utilizing tools in N-tier and Micro services architecture applications using **Spring Boot, Spring Cloud config, AWS, Rabbit MQ, Cassandra, My SQL, Restful Web Services.**
* Experienced in developed restful micro-services using **spring boot and spring cloud.**
* Experience with Service Oriented Architecture (SOA) using web services like **SOAP with WSDL using JAX-WS, REST using JAX-RS and Jersey, JAXB, and XML.**
* Expertise in designing and developing applications using J2EE technologies including **Servlets, JSP, EJB, JMS, JPA, XML, XSD, JNDI, JDBC.**
* Proficient in ORM framework like **Hibernate and JPA.**
* Excellent experience in RDBMS like **Oracle, MySQL, PostgreSQL and NoSQL databases like MongoDB.**
* Experience in testing web services using **SOAP-UI.**
* Performed unit testing using **JUnit, build and deployment** of applications done using tools **ANT, Maven and Jenkins.**
* Good experience in scripting languages like JavaScript and Shell Script.
* Experience in TDD process using **JUnit, Mockito, Jasmine and Karma, used Log4j and SLF4J for error logging and debugging.**
* Proficiency in using version control software like **GIT, SVN and Continuous Integration using Jenkins.**
* Proficient in handling web and application servers in creating **Domain, configuring connection pool, JMS, deploying applications on WebLogic, WebSphere and JBoss.**
* Development, testing and deployment experience of enterprise applications on **Windows, Linux** platforms through IDEs such as **Eclipse, Intellij IDEA, Data grip, Web Storm, Brackets.**
* Experience with **test-driven development (TDD)** using a various unit testing framework such as Junit.
* Experience in developing **PL/SQL, T-SQL queries, Stored Procedures and triggers.**
* Experience in developing and running application in cloud environments such as **AWS.**
* Involved in deploying systems on Amazon Web Services Infrastructure services EC2, S3, RDS, and Cloud Formation.

# **Technical Skills**

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| **Languages** | C, C++, Java 1.8, J2EE (Servlets, JSP, JDBC), SQL, PL/SQL |
| **Web Technologies** | HTML, CSS, JavaScript, jQuery 2.0, JSON, AJAX |
| **Web Services** | Rest, JAX-WS, JAX-RS, Jersey, JMS, WSDL, SOAP |
| **Frameworks** | Spring 4.x,Spring Boot, Spring Cloud, Struts |
| **Persistence Technologies** | Hibernate 3.0, JPA Persistence, Spring Data |
| **Build Tools** | Maven 2, Jenkins, Log4J |
| **Testing Tools** | Junit, Selenium, Easy Mock, karma, Soap UI |
| **Messaging Tools** | SOLACE, Apache KAFKA, WebSphere MQ |
| **Operating Systems** | Windows, Linux, Mac OS |
| **Databases** | Oracle 11g, MySQL 5.0, DB2, MS SQL, Mongo DB, Couchbase |
| **Application Servers** | Web logic 10, IBM web sphere 6.0, Apache Tomcat, JBoss |
| **IDE** | Eclipse, STS, Intellij IDEA, Web storm, Visual Studio code |
| **Source Controls** | GIT, SVN |

**Java Full Stack Developer July 2019 - Present**

**Royal Caribbean Cruises Ltd - Miami, FL**

**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.
* Developing and maintaining microservices that store and manage the mobile & web application of RCCL.
* Hands on experience with enhancement of the Application API based on Spring Boot, Hibernate, Restful Web Services, Akka Lagom framework and Java 8.
* Implemented Swagger specification for the dynamic REST API design, documentation, testing and deployment to expose services to clients.
* Hands on experience with production deployment of Legacy web applications & Mobile clusters including Couchbase DB update, implementation plan, deployment & migration of Micro-services, creating kafka topics, monitoring logs, publishing apigee proxies (for monitoring and scaling API’s).
* Experience in performance tuning of enterprise applications, memory leak/optimization and used caching library (Ehcache, apache ignite)
* Production support on PagerDuty including troubleshooting issues and resolving technical defects across several platforms.
* Hands on experience with the JUnit testing & Mockito framework and also used Postman for testing of API & web services. (REST and SOAP services)
* Hands on experience working with Service oriented architecture (SOAP) and Web Services using REST.
* Building reusable components and front-end libraries for future use.
* Took initiative in learning **react native**and went on to successfully develop various features under minimal supervision.
* Responsible for design and development of various components such as tab bars, map view, image picker, date picker, push notifications, sign-in/out features, profile management and navigation using **react-native**.
* Good Experience in **React JS**for creating interactive UI's using One-way data flow, Virtual DOM, JSX, **React Native**concepts.
* Involved in integrating UI with **API** and loading data using **REST API**.
* Gained experience with dockerization of micro services, running container images on Apache Mesos.
* Experience with deploying the micro-services that serve the mobile application using Jenkins.
* Performed unit testing using Junit, continuous integration and deployment of applications using Jenkins & debugging through Log4j.
* Used GIT as version control and regularly pushed the code to Bit Bucket and used Jenkins for continuous Integration and Deployment (CI/CD)
* Worked on all assignments using JIRA tracking software, agile development methods and developed throughout entire software lifecycle.

**Java Full Stack Developer Aug 2017 to July 2019**

**Charter Communications, Maryland Heights, MO**

Charter Communication, Inc. is a leading broadband communications company and cable operator in the United States, and provides video, high-speed Internet and phone services across the USA. Enhancements developed for the application online order services where customers order for the High-Speed Internet, TV and Telephone connections and developed enhancements for secured online money transaction payments.

**Responsibilities**:

* Involved in all phases of Software Development Lifecycle including Requirements gathering, Design & Analysis of the Customer Specifications, Development and Customization of the Application-using scrum based Agile.
* Extensive experience with Agile Team Development using **JIRA** for bug and issue tracking.
* Designed and developed applications using spring, J2EE Design Patterns such as **MVC and JSP/Servlets** to develop the application on Windows and UNIX platforms.
* Using **Spring IOC (Inversion of Control)** to remove the object Dependencies across the application.
* Data Operations are performed using **Spring ORM wiring with Hibernate** and implemented **Hibernate template and criteria API for Querying database**.
* Hibernate is used for persisting data while developing an application based on **Spring Framework**.
* Utilized **HTML, CSS, JavaScript, and AJAX** for client-side developments and validations.
* Added dynamic functionality to the application by implementing **jQuery and Angular 4**.
* Developed Micro services using **Spring Boot, Spring Cloud** and deploying to **AWS Cloud**.
* Deployed **Spring Boot** based micro services **Docker** container using **Amazon EC2** container services.
* Used Rest based Web Services from scratch using **JAX-RS** library.
* Wrote **controllers with Groovy** to connect front-end interfaces with java services and used to achieve functionality with reduced code length.
* Implemented Restful web services using **SPRING MVC** and **Spring Controller** and documented using Swagger.
* Extensive use of **Spring Framework** for **Dependency Injection** and integrated along Node JS and Hibernate.
* Designed various tables required for the project in **Oracle 11g database** and used Spring JDBC to invoke PL/SQL Stored Procedures and to connect to databases.
* Designed and implemented customized exception handling to handle the exceptions in the application.
* Worked with Core Java code extensively using interfaces and **multi-threading techniques**.
* Deployed the applications on **JBoss ESB**.
* Designed and implemented the **MongoDB** schema. Wrote services to store and retrieve user data from the MongoDB for the application on devices.
* Worked on **MongoDB** database concepts such as locking, transactions, indexes, Sharding, replication, schema design. Created multiple databases with sharded collections and choosing shard key based on the requirements.
* Performed CRUD operations like Update, Insert and Delete data in **MongoDB** and Oracle database management system and handled database access and data transmission based on RESTful web service
* Responsible for building components to connect to other micro-services using **Kafka** and Integrated **Kafka** source to read the payment confirmation messages.
* Integrated Apache **Kafka** with Elasticsearch using kafka Elasticsearch Connector to stream all messages from different partitions and topics into Elasticsearch for search and Analysis purpose.
* Used **Continuous delivery/ Continuous Integration** tools **Docker, Jenkins** to deploy this application to **AWS** and used **GIT** for version control of code for incremental development.
* Used **Eclipse IDE** for developing the applications.
* Implemented **Java Multithreading** to refresh the cache at a given set of time interval.
* Involved in writing the **JUnit** test cases using Mockito and integration testing of the system.
* Implemented **Log4J for Logging Errors, debugging and tracking using loggers**, appenders and components.
* Used **Maven** to build, run and create JARs and WAR files among other uses.

**Environment**: Java JDK/J2EE (1.8), Spring 4.2, Hibernate 4.0, HTML5, CSS3, JavaScript, NodeJS, Ajax, Angular 4.0, Bootstrap, Java Server Faces (JSF), AWS, Tomcat, Restful Web Services, SOAP, Groovy, WSDL, Camel, Swagger, JMS, JAX-B, XML, XSLT, SAX & DOM, Oracle 11g, MongoDB, GIT, SQL Server, Eclipse IDE, Multithreading, JUnit, Log4j, GIT, Maven, Agile/Scrum, Windows & Unix.

**Java/J2EE Developer Jan 2016 to Aug 2017**

**Bank of America - Charlotte, NC**

**Description:** CORE (Common Opportunities, Results and Experience) is an initiative to re-architect and redesign retail mortgage application management process by integrating both sales and fulfillment. This application manages a loan application from the initiation of a loan application till its funding. The project is based on MVC architecture developed using angular UI framework, Spring Boot and MVC in middleware and Hibernate as persistence framework Enterprise branch application.

**Responsibilities:**

* Involved in complete Software Development Life Cycle - analysis, design, development, coding, testing, deployment and operation.
* Worked on developing responsive UI using **bootstrap and angular 2**. Extensively worked on angular directives, components, templates to consume restful micro services on the backend.
* Worked on POCs aimed at breaking of a monolithic application into **micro services** using spring boot and spring cloud components.
* Used a **Micro service architecture, with Spring Boot**-**based** services interacting through **REST** and **Apache** **Kafka**.
* Built **Spring boot-based Java Micro services** to support enterprise web application.
* Worked on **Spring Quartz** functionality for scheduling tasks such as generating monthly reports for customers.
* Implemented **Pre-Authentication and database** **security** with Site Minder and **spring security**.
* Working on developing and configuring rest endpoints using spring boot, worked on developing **controller, service and DAO layers** for multiple services.
* Worked on developing DAO layers in services using **hibernate ORM**.
* Created **SQL queries, Functions for Persistence layer, PL/SQL Stored Procedures**, required business objects and validating with Stored Procedures using Oracle and JPA with the Hibernate provider.
* Written some part code of data storage in S3 and Glacier using the Amazon API.
* Worked on **EC2 and VPC API** to create instances and virtual private cloud in **AWS**.
* Worked on continuous integration of micro service code with **SVN, Jenkins and Maven** there by reducing manual effort in deploying the code into several QA and PROD environments
* Performed unit testing using **JUNIT** framework and tested **DAO's** and Business Services.
* Using **SVN** for version control.
* Used **Maven as the build tool** to manage the dependencies of the project.
* Used **JIRA** for tracking project progress and tasks.

**Environment:** Java 1.8, Spring Boot, Spring Cloud, JPA, Spring AOP, Angular, JavaScript, jQuery, HTML5, CSS3, Hibernate, Junit, AWS, SVN, Jenkins, MAVEN.

Java Programmer, HSBC, Jersey City, NJ Aug 2014 to Dec 2015

**Description**: Merchant Payment Solutions (MPS-M2) is a web-based application for merchant acquisition developed using Spring MVC as a framework integrating with Hibernate ORM for building the DAO layer. Application consists of modules which are built in front-end using angular JS and JSON is produced by the spring MVC backend.

**Responsibilities**:

* Involved in **Analysis, Design and Implementation/translation** of Business User requirements.
* Actively participated in the daily SCRUM meetings to produce quality deliverables within time.
* Involved in application design and database design sessions
* Designed and implemented application using **JSP, Spring MVC, JNDI, Spring IOC, Spring Annotations, Spring AOP, Spring Transactions, Hibernate, JDBC, SQL, JMS, Oracle and WebLogic app server**.
* Involved in multi-tiered J2EE design utilizing **Spring Inversion of Control (IOC) and Hibernate**.
* Developed Web services to allow communication between application through **SOAP** over **HTTP using Apache CXF**.
* Used **WebLogic** server built in JMS provider for communicating with legacy applications also Configured connection pooling on **WebLogic server**.
* Configured and customized logs using **Log4J**.
* Wrote **SQL queries, stored procedures, modifications** to existing database structure as required for addition of new features using **Oracle database**.
* Involved in installing and configuring **Jenkins and Maven** for application builds and deployment and used **JIRA** for bug tracking, issue tracking and project management.
* Used Log4J to validate functionalities and **JUnit** for unit testing.

**Environment:** Java, Hibernate, Spring, JSP, XML, Java Beans, JMS, Design Patterns, Apache CXF, SOAP Web services, Log4J, JUnit, SVN, Oracle, Eclipse, maven, Rational Rose, JIRA, Windows and Oracle.

Jr java Developer, NOKIA, Bengaluru, India May 2013 to July 2014

**Description**: NOKIA is a telecom organization based out of Bengaluru specialized in providing telecom services, in capacity as a junior java developer was involved in developing an internal tool for employees to manage their payroll, time off, tax forms etc. application was developed using java/j2ee Technologies.

**Responsibilities:**

* Developed the application as per the **functional requirements** from the analysts.
* Developed and deployed **EJBs (Session)** to implement the business logic and to handle various interactions with the database.
* Developed the client-side validation using **JavaScript**.
* Developed web screens in **Html and JSP**.
* Used apache **Struts and Tiles** to develop the web-based components.
* Design and Development of User Interface using **Struts tag libraries**.
* Design and Development of server-side modules using **Web Services, JDBC and EJB**.
* Developed **SOAP and REST** Web Services using apache CXF.
* Involved in deployment of the application for production.
* Installed and configured **WebSphere in Development** and Testing environment.
* Developed DAO classes using **JDBC Callable statements** for calling PL/SQL stored procedures.
* Designed, developed, debugged and tested the web based J2EE application.
* Used **Log4J** utility to log error, info and debug messages.
* Configured and deployed the J2EE application on **WebSphere Application Server**.
* Tested the whole application for errors screen by screens.
* Used **RAD** for IDE and Clear case for version control.

**Environment:** Java, J2EE, JSP, Servlets, Hibernate, Struts, PL/SQL, WebSphere Application Server, web services, SVN, Log4J, Unix, Win XP.