**POTHAPI KRISHNA KUMAR**

***Java Full Stack Developer***

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# PROFESSIONAL SUMMARY

* Over 10 years of extensive experience in **Java** and **J2EE** technologies, specializing in analysis, design, implementation, testing, and maintenance of applications.
* SDLC Lifecycle management in healthcare, retail ecommerce application using Agile methodology, including third party,

integrations such as Paypal, Borderfree, Truefit and Vendornet.

* Proficient in various frameworks including Spring Framework (Core, Web, Data Access), Spring Boot, Spring Security, **Spring Batch**, Spring Data JPA, Spring Rest, Spring Data Redis, **Hibernate,** Apache CXF, and JAX-RS using Jersey.
* Developed Web and Distributed Applications using J2EE technologies such as **JDBC, JSP, Servlets, Hibernate, Struts,** and **Web Services.**
* Experience in Spring Framework such as **Spring IOC**, **Spring DAO**, **Spring ORM**, Spring Resources, **Spring JDBC**, Spring Boot and **Micro - Services**.
* Developed single-page web applications using Angular with **TypeScript/ES and jQuery** and implemented HTTP access control CORS for cross-origin resource sharing.
* Created reusable components and services using TypeScript with **Angular 14.0** and **Angular 11's** component-based architecture.
* Extensive experience in client-side designing and validations using **HTML, CSS, JavaScript, AJAX, jQuery, Angular 11, ReactJS** and **NodeJS.**
* Proficient in **UI** frameworks **Angular 11** for graphical user interfaces and **HTML, CSS, and JSPs for webpages**.
* JavaScript Full Stack Developer with a focus on microservices architecture using **React/Redux**.
* Hands-on experience with **Java 8** features like **Lambda, Streams, Optional,** Java Time API, Functional interfaces, and BASE **64 encryption**.
* Skilled in building and maintaining **Docker/Kubernetes** container clusters on AWS using **Linux, Bash, GIT, and Docker**.
* Experienced in developing **SOA, REST**, and J2EE Web Services based on SOAP, BPM, WSDL, JAX-WS, JAXB, and **JAX-RPC** using Apache Axis.
* Strong understanding and usage of Hibernate for Object Relational Mapping with **XML** mappings and Java Objects.
* Proficient in API technologies such as **OAuth, SAML, Spring Boot, and Microservices**.
* Proficient in automated **testing** using **JUnit**, **TestNG**, and **Mockito** to enhance **code** reliability.
* Experienced in performance testing with tools like **JMeter** and **LoadRunner**, ensuring optimal application scalability.
* Skilled in testing **RESTful** APIs, **SOAP** web services, and microservices, employing Postman and **SoapUI** for **robust** functionality validation.
* Implemented the complete Auth support for plugging in providers requiring **Auth2** for Source using Apigee Gateway as
* the platform
* Proficient in leveraging **NoSQL** databases for managing extensive amounts of unstructured and semi-structured data, guaranteeing scalability and optimal data retrieval performance.
* Proficient in DynamoDB schema design, **primary key** definition, and optimization for efficient, low-latency data access. Implemented advanced query operations, including **DynamoDB Query** and Scan, and fine-tuned **read/write** capacities to optimize cost and performance, leveraging secondary indexes for enhanced query **flexibility.**
* Expertise in working with **Terraform** key features such as Infrastructure as a **code,** Execution plans, Resource Graphs, change automation and extensively used **Auto scaling** launch configuration templates for launching **amazon EC2** instances while deploying **microservices**.
* Implemented cluster services using **Kubernete**s and **Docker** to manage local deployments in Kubernetes by building a self -hosted Kubernetes cluster **using Terraform** and Ansible and deploying application containers.
* Automated **OpenStac**k and **AWS deployment** using **Cloud Formation**, **Ansible**, **Chef** **and Terraform**.
* Skilled in Azure services and core concepts of Azure cloud computing.
* Extensive experience in developing web applications using Spring Boot, Spring Core, Spring MVC, Spring ORM, Spring JPA, Spring Rest, and Spring Cloud (PCF).
* Application integration using **MuleSoft ESB** and **IBM Message Broker**, with experience in profiling Java applications using **JProfiler** and optimizing **JVM usage**.
* Good understanding of **Spring, IOC, AOP, Spring MVC**, and integration with Hibernate and Struts technologies.
* Thorough experience in testing and debugging **RESTful APIs** using tools like **Postman** and **JUnit**, ensuring compliance with rigorous functional requirements and industry standards.

**TECHNICAL SKILLS**

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| --- | --- |
| Languages | Java (J2SE1.8/1.6/1.5, J2EE 6/5), SQL, PL/SQL |
| Technologies | JSP2, Servlets, JavaBeans, JDBC, Struts, RMI, EJB, Hibernate, Spring 3.0, Spring 4, Spring Boot, SOA, SAX and DOM Parsers, AJAX, JAXB, JAXP, LDAP, Sybase Power Designer, RESTful and SOAP web services |
| Web Technologies | HTML/DHTML, XHTML, JavaScript1.x, XML, XSL, XSLT, CSS, Bootstrap, Angular 11/7/6/5 -JS, jQuery |
| Development Tools (IDEs) | Eclipse, MyEclipse, RAD, WSAD, NetBeans, MS Visual Studio 2005, Brackets and Web storm |
| Web/Application Servers | Tomcat, WebLogic, IBM WebSphere |
| Data Base | Oracle, MS SQL Server, MySQL, DB2, Mongo DB. |
| Platforms | Windows, UNIX, LINUX |
| Methodologies | Agile Methodology, RUP, Extreme Programming |
| Build Tools | Rational Rose, CVS, GIT, SVN, VSS, Clear Case, JIRA, Jenkins, JUnit, TestNG, Selenium, Cucumber, Beehive, Mockito, IBM MQ, Log4j, ANT, Maven, Gradle, EC2, VPC, SNS, SQS. |

# WORK EXPERIENCE

**Client: USAA. | Duration: Nov 2022 to till now.**

**Role: Full stack Developer**

**Responsibilities:**

* As a Developer, involved in the entire **(SDLC)** life cycle of the project, from designing the project to implementation- working in Agile practices with a two-week sprint.
* Analyzes design and determines coding, programming, and integration activities based on general objectives and overall architecture of product or solution using **Java 11.**
* Took part in setting up the routing configuration using **Angular11UI** router for various views and sub-views.
* Developed Angular11services making use of resource service to perform **REST API** calls to the backend.
* Involved in enhancing existing **MEAN (MongoDB, Express, Angular11, and Node)** stack applications and provided the required support.
* Build REST web service by building **Node.js** Server in the back end to handle requests sent from the front-end **Angular11Ajax calls**.
* Hands-on experience working with Continuous Integration (CI) build-automation tools like Jenkins and Build Plugins like Maven, Gradle, and Apache Ant.
* Deployed and managed applications on **Amazon Web Services (AWS),** demonstrating proficiency in EC2 instances by creating snapshots, volumes, and configuring **security groups** for both public and **private** instances.
* Designed, developed, and implemented **robust ORM** solutions using **Hibernate** for seamless integration between Java applications and relational databases.
* Proficient in leveraging advanced Hibernate features such as **caching mechanisms**, **lazy loading**, and **second-level** caching to optimize database interactions and enhance overall application performance.
* Extensive experience in defining and implementing Hibernate mappings using **XML** and annotations, ensuring effective **mapping** between Java classes and database tables.
* Applied Hibernate for simplifying database interactions, reducing the need for **complex SQL queries**, and enhancing overall data access performance.
* Developed and fine-tuned data models in **NoSQL** databases, guaranteeing effective **storage** and retrieval of various data.
* Demonstrated expertise in **NoSQL** database administration, encompassing tasks such as backup, recovery, **monitoring**, and performance tuning.
* Implemented **Kafka** producer and consumer applications on **Kafka cluster** setup with the help of **Zookeeper.**
* Plans and coordinates the administration of **PostgreSQL** databases to ensure accurate, appropriate, and effective use of data, including database definition, structure, documentation, long-range requirements, and operational guidelines.
* Used Pivotal **Cloud Foundry** to quickly build, deploy and update the applications and managed Pivotal Cloud Foundry-based platform built on **Kubernetes** programming with deployment manager and containerized using **Docker.**
* Responsible for configuring, integrating, and maintaining all Development, QA, Staging, and Production PostgreSQL databases within the organization.
* Extensively worked on **Jenkins** to implement continuous **integration (CI)** and Continuous **deployment (CD)** processes.
* Familiarity with **Groovy**, the dynamic programming language used in **Grails** development.
* Configure backup, alerts, repairs, and monitoring of **Cassandra clusters** using **OpsCenter.**
* Administered, monitored, and maintained multi-data-center **Cassandra** cluster using **OpsCenter** and **Nagios** in production.
* Used **MongoDB** internal tools like Mongo Compass, Mongo Atlas Manager & Ops Manager, Cloud Manager, etc.
* Worked on MongoDB database concepts such as locking, transactions, indexes, sharding, replication, and schema design.
* Strong programming skills in designing and implementing multi-tier applications using web-based technologies like **Spring MVC** and **Spring Boot**.
* Implemented **REST Microservices** using Spring Boot. Generated Metrics with method-level granularity and Persistence using **Spring AOP** and **Spring Actuator**.
* Strong in **Java/J2EE** design patterns and other object-oriented concepts (OOPS) and worked on **Java6/8/11** versions.
* Used **Java 11+** features such as Lambdas, Streams, Observables, Completable Futures, etc.
* Utilized AWS services for cloud resource management, including virtual machines, storage accounts, and networking.
* utilizing **IBM** WebSphere Application Server as a **robust** platform for deploying and managing **Java EE** applications.
* Expertise in configuring backup, alerts, repairs, and monitoring of Cassandra clusters on AWS using OpsCenter.
* Integrated and leveraged AWS services such as S3 for scalable and secure object storage, **AWS Lambda** for serverless computing, and **Amazon RDS** for managed relational databases.
* Successfully implemented Terraform for infrastructure as code, deploying cloud services, including Jenkins and Nexus, within **Docker** containers on AWS.
* Designed and developed front-end screens using **Angular 11,** ensuring responsive and user-friendly interfaces for web applications.
* Utilized Angular 11 **UI Bootstrap** components, including calendars, masks, uploaders, sliders, alerts, and modal dialogs, to enhance the user experience and streamline UI development.
* Played a key role in setting up routing configurations using **Angular 11** UI Router for various views and sub-views, ensuring smooth navigation within the application.
* Developed Angular 11 services, leveraging resource services to perform seamless REST API calls to the backend, enhancing overall application functionality.
* Actively participated in enhancing existing MEAN stack applications, integrating Angular 11 components with MongoDB, Express, and **Node.js** to deliver **robust and scalable solutions**.
* Implemented and configured React Router for developing Single Page Applications **(SPAs),** contributing to the dynamic and efficient navigation flow within the application.
* Developed various screens for the front end using **ReactJS**, incorporating and customizing predefined components from **NPM** to meet specific project requirements.
* Created **React JS** components using **JSX** and adhered to the **FLUX** design pattern for unidirectional data flow, ensuring maintainability and scalability of the front-end codebase.
* Used **jQuery** to enhance **HTML, DHTML**, and **CSS** code interactions, adding dynamism to web pages at the client side within the **MEAN** stack applications.

**Environment**: Java 11, J2EE, JSP, Servlets, Angular 11, Azure, JavaScript, CSS, HTML, Spring MVC, Spring boot, JDBC, RESTful, OAuth2 Log4J2, JIRA, TDD, Groovy, Oracle, WebSphere, C#.Net, GitHub, Kubernetes, Azure, Netscape, Agile/ Scrum Methodology.

**Client:** **Herbalife. | Duration: Sep 2020 to Oct 2022**

**Role: Full Stack Developer**

**Responsibilities:**

* Embraced an **Agile methodology**, actively participating in daily **SCRUM** meetings, sprint planning, showcases, and retrospectives, utilizing **JIRA** as a tracking tool for sprints.
* Configured **Gulp** to handle various UI build and test-related tasks, managing dependencies with **NodeJS NPM** and Bower.
* Implemented client-side interfaces using **React JS**, working with React components, forms, events, keys, router, animations, and **Flux** concepts.
* Integrated Azure services like Azure Kubernetes Service (AKS), Blob Storage, and Table Storage to optimize data management and scalability in React projects.
* Implemented Azure Active Directory for secure user authentication and authorization in React applications.
* Utilized React's efficient data flow architecture to develop lightweight and render-efficient web applications, particularly for searching projects via the **GitHub API**.
* Incorporated React-Autocomplete to create location search functionalities using Google Maps on webpages.
* Worked extensively with **React Router** for developing Single Page Applications **(SPAs).**
* Developed REST controllers using **Spring Data REST** to serve the UI with required **JSON** data.
* Created Docker images and ran Docker containers in various environments for seamless deployment.
* Adopted a complete annotation-driven approach in developing applications using Spring Boot and played a key role in setting up Spring bean profiling.
* Consumed **SOAP/JAX-WS-based** web services using the Spring framework and performed testing using SOAP UI.
* Used **REST** Client and **POSTMAN** to test REST-based services and employed Junit and **Mockito** for middleware service testing.
* Designed and deployed new features to streamline manual operations, actively tracking burndown, issues, and progress.
* Collaborated with component teams to resolve issues and contributed to **DNS/DHCP**, **Load Balancing, Firewalls, IDS/IPS, and IPSEC VPN configurations.**
* Participated in the planning, implementation, and growth of customer Confidential Web Services (AWS) foundational footprint.
* Configured AWS CLI and performed necessary actions on AWS services using **shell scripting**.
* Utilized **DynamoDB** secondary indexes to support diverse query patterns and improve data access flexibility.
* Implemented **DynamoDB Streams** for real-time monitoring and capturing changes in the database, enabling seamless integration with **downstream** services
* Utilized AWS CLI for automating backups, developed custom **Jenkins pipelines**, and managed CI/CD and Docker deployment pipelines for custom application images.
* Deployed and scaled web applications and services developed with Java using **AWS Beanstalk.**
* Configured Gulp to handle various UI build and test-related tasks in React projects and utilized **NodeJS NPM** and Bower for dependency management.
* Developed unit test cases using **Jasmine and Karma** and performed end-to-end testing using **Protractor** and **Selenium** for React applications.
* Implemented client-side interfaces using **React JS**, working with React components, forms, events, keys, router, animations, and Flux concepts.
* Built React components and standalone functions for future pages, utilizing **React's** efficient data flow architecture to create lightweight and **render-efficient** web apps.

**Environment**: JDK 1.8, Veracode, Spring Boot, Spring MVC, MongoDB, hibernate 4.0, Apache CXF, AJAX, UML, MS Visio, JSTL, Oracle 11g, Eclipse 4.2, Junit, Log4j, Maven 3.1, AWS, Node JS, React JS, HTML5, CSS3, Toad, Maven, NodeJS, Junit 4.1, JIRA, Groovy, Quartz Scheduler, Drools BRMS, GIT.

**Client: Abercrombie & Fitch, Albany, OHIO. | Duration: June 2018 to Aug 2020**

**Role: Full Stack Developer**

**Responsibilities:**

* Configured **AWS CLI** and automated backups of ephemeral data stores to **S3 buckets** and EBS, utilizing shell scripting.
* Developed custom **Jenkins pipelines** incorporating Bash shell scripts with **AWS CLI** for infrastructure provisioning.
* Deployed and scaled web applications and services, leveraging **AWS** Beanstalk for Java applications.
* Collaborated with the **Kafka** Admin team to set up **Kafka clusters** on QA and Production environments using Zookeeper.
* Managed **PostgreSQL** databases across development, QA, staging, and production environments, utilizing Pivotal Cloud Foundry and **Kubernetes.**
* Used Pivotal **Cloud** **Foundry** to build, deploy, and update applications, managing a Pivotal Cloud Foundry-based platform on Kubernetes.
* Designed and implemented various screens for the front end using **Angular 4/5** and **Angular 6**.
* Established routing configurations with Angular UI Router for different views and sub-views.
* Developed Angular services utilizing resource service for seamless **REST API** calls to the backend.
* Utilized Angular UI Bootstrap components, such as calendars, masks, uploaders, sliders, alerts, and modal dialogs, for enhanced UI development.
* Implemented **Angular 4/5** Template Driven forms and Modern Driven **(Reactive)** forms for comprehensive form validations.
* Integrated **Azure AD** for secure authentication and authorization of users in Java web applications.
* Collaborated on private and public Git repositories on **GitHub** and **GitLab** for version control, employing Jenkins for continuous integration and deployment processes.

**Environment:** Java/JDK, Spring Batch, Spring Boot, Spring MVC, AWS, Hibernate, JSON, RESTful, Eclipse, MAVEN, JUnit,

APIGEE, Jenkins, MongoDB, Agile Methodology, GIT, Docker, Kubernetes and Log4J, REACT JS, Swagger, HTML5, CSS3, Query, Node.JS, Typescript, AJAX, POSTMAN, Microservices, Bootstrap.

**Client: Wells Fargo, Charlotte, NC. | Duration: Jan 2016 to May 2018**

**Role: Full Stack Developer**

**Responsibilities:**

* Engaged in various phases of the Software Development Life Cycle **(SDLC)**, including Requirement gathering, Design, Analysis, and Code development.
* Utilized **Azure** for building, deploying, and managing applications, ensuring seamless integration into the Azure cloud environment.
* Applied best coding practices and naming conventions while developing applications **using HTML, CSS, JavaScript, AJAX, JSON, AngularJS,** and **Bootstrap.**
* Responsible for splitting UI logic into **AngularJS MVC** Architecture Views, Models, and Controllers to enhance maintainability and scalability.
* Played a crucial role in estimations, code reviews, and build deployments, ensuring the delivery of high-quality software.
* Leveraged **AngularJS HTTP** requests to fetch data from web services and processed JSON data for rendering in the UI.
* Implemented the MVC Architectural Pattern using the Spring Framework, utilizing the Spring IOC container for core Objects Lifecycle management.
* Executed test-driven development (TDD), creating unit test plans and Grails Spock Test cases for controllers, services, and domain classes.
* Implemented **Spring Security** for user authentication, limiting login attempts, and password hashing.
* Developed Web Services **(SOAP)** using **Spring-WS** to handle user requests and interact with other components.
* Designed and implemented Microservices using **Spring Boot** and **Spring Batch**, managing assignment information from the backend.
* Utilized Spring Boot Microservices to modularize the application, improving **scalability** and **flexibility**.
* Implemented Web Services clients for **APIs** by leveraging the Spring Webservices Template class.
* Used parsers like **SAX** and **DOM** for parsing **XML** documents and applied **XSLT** for XML transformations.
* Designed and developed Stored Procedures, Triggers in **MS SQL** to meet the application's data manipulation and retrieval requirements.
* Built rich prototypes and applications using **React, HTML, CSS,** and **JavaScript**, ensuring a responsive and intuitive user interface.
* Followed best coding practices and maintained naming conventions for clarity and consistency in **ReactJS, CSS**, and **HTML** **coding**.
* Implemented **REST controllers** using Spring Boot, allowing smooth communication between the React front end and the backend.
* Utilized **React-Router** for developing Single Page Applications **(SPAs),** ensuring efficient navigation and state management.
* Integrated Swagger API for automatic generation of documentation, streamlining API communication and documentation processes.

**Environment**: JavaScript, Java/J2EE, JBoss, Spring Core, Spring MVC, JMeter, Hibernate, Angular JS, HTML5, CSS3, RESTful web services, Node.JS, Bootstrap, Jenkin, Oracle, AWS, Microservices.

**Client: Verizon, Alpharetta, GA.** **| Duration: Dec 2013 – Dec 2015**

**Role: Java Developer**

**Responsibilities:**

* Designed, developed, and validated user interfaces using **HTML**, **JavaScript**, and CSS, with a focus on web-based design principles.
* Employed JavaScript to dynamically make changes on the client page, enhancing performance by minimizing server hits.
* Utilized **J2EE** design patterns such as Session Façade, Business Object (BO), Service Locator, Data Transfer Object (DTO), Data Access Object (DAO), Singleton, and Factory.
* Participated in the design, development, testing, and implementation of process systems, following iterative life cycles and creating detailed design documents.
* Implemented **DOM** manipulation, element show/hide, and event handling using **JavaScript, Spring MVC, and Dependency Injection for presentation** and **business logic.**
* Maintained loose coupling between layers by publishing the business layer as services and injecting necessary components using Spring **IOC.**
* Implemented Restful web services using **JAX-RS** annotations, Jersey as a provider, and integrated security using **OAuth**, leveraging the Gradle build tool for enhanced functionality.
* Extensively used **JSON** for data parsing, integrated Spring and **Hibernate,** and developed backend components and services using Hibernate and Spring.
* Consumed **Web Services** and **Kubernetes** to interact with external interfaces, exchanging data in different forms through Rest **API services.**
* Implemented Service-Oriented Architecture **(SOA)** and **J2EE** architecture with Web Services using **SOAP, WSDL, UDDI, and XML, utilizing the Apache CXF framework.**
* Developed database components, including tables, triggers, **PL/SQL** Stored Procedures, **SQL** queries, joins, integrity constraints, and views for **IBM DB2.**
* Utilized multithreading and the Singleton design pattern in Hibernate Utility class for improved overall performance and unit testing of various modules.
* Managed day-to-day tasks involving **JIRA, J2EE, Kubernetes,** and **Rest API**, addressing production issues promptly and resolving data inconsistencies efficiently.

**Environment**: Java, J2EE, HTML, CSS, jQuery, JavaScript, SOAP, JSON, XML, Spring, Spring MVC, Hibernate, REST, Rest API, Maven, UML, JIRA, Log4J.

**Client: Yana Software Private Limited Hyderabad, India. | Duration: Jan 2013– Sept 2013**

**Role: Java Developer**

**Responsibilities:**

* Involved in Requirement **Analysis and Design** and **documentation**.
* Designed and developed the application using Java Server Faces **(JSF)** framework.
* Extensively used the **J2EE** design patterns like Business Delegate, Service Locator, Value Object (Transfer Object) and Data Access Object and Session Façade.
* Involved in writing **EJB's/Web services**.
* Worked on the **OAuth 2.0** for accessing the cloud **storages** like Box, **one drive**, **GoogleDrive**, **Drop box**.
* Implementation of **NodelS** based authentication service for fortune 500 using oing Federate and OAUTH.
* Worked on generating the web services classes by using **RESTful** web services.
* Implemented **EJB**(Enterprise Java Beans) and Web services.
* Developed Rich Enterprise Application using **ICE Faces**.
* Implemented the **Hibernate** frame work to interact with database.
* Implemented portal page level Access and login using **LDAP.**
* Analysed the existing **SQL** queries and designed queries to optimize the performance in the backend.
* Extensively used core **JAVA** concepts like Collections Framework.
* Worked on **SQL** and **PL/SQL** to write Stored Procedures, Functions and Packages for complex Inserts and updates.
* Prepared the test plans and executed test cases for unit, integration and system testing using different automation tools like **Junit, Soap UI** and **Fiddler**.
* Performance Testing experience using **JMeter.**

**Environment:** J2EE, PL/SQL, Stored Procedures, EJB,JSF, ICE Faces, Web services, XML, XSD, Clear Case, Oracle 9.i/10.g, tomcat 5.5, WebSphere5.1, LDAP, Spring Integration, Hibernate, LOG4j, Servlets, JSP, Unix, Junit, JMeter.

# EDUCATION

* Bachelor’s from JNTUH University, India.