**SHILPA B**

**Full Stack Developer**

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# SUMMARY

* Having over all 8+ years of experience in Object Oriented Designing, Developing, Implementation and testing in Client/Servers e-business applications using Java&J2EE Technologies.
* Review design documents with stake holders and collect approvals
* Designed and optimized database schemas using SQL and ORM frameworks like Hibernate, improving data retrieval efficiency
* Utilized version control systems such as Git for code management and collaboration, ensuring seamless integration and deployment
* Implemented RESTful web services using Spring Framework, facilitating seamless communication between client and server
* Experience in the design, development, implementation, and maintenance of Camunda-based workflows or BPM solutions.
* Integrated third-party libraries and Angular extensions, such as Angular Material or ngx-bootstrap, to enhance application aesthetics and functionality.
* Integrated third-party APIs and libraries to enhance application functionality and user experience
* Identified and resolved performance bottlenecks through profiling and optimization techniques, resulting in significant improvements in application speed and efficiency.
* Implemented security measures such as authentication, authorization, and encryption to safeguard sensitive data and prevent unauthorized access.
* Utilized AWS serverless services such as DynamoDB, S3, and Aurora Serverless for data storage, retrieval, and processing in serverless applications.
* Configured and customized Oracle applications modules to align with business processes and requirements.
* Integrated with third-party APIs and services using Spring RestTemplate or WebClient, facilitating communication with external systems and services.
* Designed and implemented microservices architecture using AWS Lambda functions, decomposing monolithic applications into smaller, independently deployable units.
* Collaborated with development, operations, and quality assurance teams to streamline the CI/CD process and foster a culture of collaboration and continuous improvement.
* Configured S3 buckets to host static websites, leveraging S3's static website hosting capabilities
* Conducted code reviews and participated in Agile development processes to ensure code quality, maintainability, and adherence to project timelines.
* Experience in Integration of Amazon Web Services (AWS) with other applications infrastructure
* Strong Experience in developing the application using frameworks like Struts, Java Server Faces (JSF) and Spring Frameworks Worked on maintaining the persistence using Hibernate, JPA ORM.
* Mentored junior developers, providing guidance on coding best practices, design principles, and emerging technologies

# SKILLSET

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| Platforms | Windows 2000/NT/ XP/Vista and Sun Solaris 2.8/2.9, UNIX |
| Programming | JDK 1.5, 1.6, 1.7,1.8, C, C++, PL/SQL |
| Server Scripting | JSP1.2, 2.1, JSP-EL, JSTL, Custom Tags |
| Client Scripting | JQuery 1.8,1.9, JQuery UI, ExtJS, AngularJS, JavaScript, CSS2, CSS3, HTML4, HTML5, NodeJS, React JS, Next.JS |
| Java Frameworks | Struts 1.2, Struts 2.1, Spring MVC, DI, AOP, Spring Boot,  JSF 1.1, JSF 2.1 |
| Database Tools | Toad for Oracle, Toad for MySQL, Toad for DB2, Toad for MS-SQL, Erwin, MySQL Workbench, Oracle |
| Version Control | Tortoise SVN, Rational Clearcase, GitHub, CVS, Bit bucket |
| IDEs | Eclipse 3.0, 3.1, My Eclipse 4.1, IntelliJ, NetBeans |
| Build Tools | ANT 1.7,1.8,1.9, Maven, Gradle |
| Continuous Integration | Jenkins, Hudson, Docker, Kubernetes |
| Application Servers | Weblogic 8.1, 10.0, WebSphere 6.1, JBoss 4.0 |
| Web Servers  Amazon web services | Tomcat 5.0,6.0,7.1  EC2, EBS, S3, ELB, OpenStack, Microsoft Azure, AWS, GCP |
| Defect Tracking | JIRA, Bugzilla, Rational ClearQuest |
| Methodologies | Agile (XP, Scrum), Rational Unified Process (RUP), Waterfall, Kanban |

# EXPERIENCE

**Client: State of Maryland, MD Jan 2023 - Present**

**Role: Full Stack Developer**

**Responsibilities:**

* Participated in users’ meetings along with the Business Analyst for requirements gathering and analysis.
* Analysis, design, development and testing of the application.
* HTML, XML, CSS, JavaScript for developing front end pages, client-side validations and enhancing/building page widgets.
* Developed dynamic and interactive web pages using Java Server Pages (JSP), incorporating Java code to generate dynamic content
* Designed and implemented scalable and secure cloud solutions on Microsoft Azure, utilizing services such as Azure Virtual Machines, Azure Blob Storage, and Azure Functions
* Developed responsive and interactive web applications using Angular framework, delivering intuitive user interfaces and exceptional user experiences.
* Defined resource endpoints, HTTP methods, request/response formats (JSON/XML), and error handling mechanisms adhering to RESTful principles
* Configured and managed AWS EC2 instances, serverless functions (AWS Lambda), and containerized applications (AWS Fargate and ECS).
* Developed and optimized SQL queries and stored procedures using PL/SQL for efficient data manipulation, extraction, and reporting.
* Implemented microservices architecture using AWS Lambda functions to decompose monolithic applications into smaller, independently deployable units, improving scalability, agility, and maintainability.
* Implemented authentication and authorization mechanisms such as OAuth 2.0, JWT (JSON Web Tokens), or API keys to secure access to RESTful APIs and protect sensitive data.
* Developed dynamic and responsive web applications using React.js, leveraging functional components, hooks, and state management solutions like Redux or Context API.
* Integrated AWS Lambda into serverless architectures, often using AWS API Gateway for HTTP triggering
* Produced and consumes Restful APIs in spring Boot.
* Designed data models for NoSQL databases considering denormalization, aggregation, and hierarchical data structures to optimize query performance and minimize data duplication.
* Implemented testing strategies using JUnit, Mockito, and Spring Test for unit testing, integration testing, and end-to-end testing of Spring Boot applications.
* Implemented database security best practices, including encryption at rest and in transit, fine-grained access control using IAM roles and database user permissions
* Implemented state management in Angular using NgRx and API gateway for all the outgoing RESTful calls from Angular to spring boot in NestJS.
* Designed and implemented data models in Cassandra, optimizing data structures and partitioning strategies for efficient data storage and retrieval.
* Designed RESTful and GraphQL APIs and created comprehensive documentation, often using tools like Swagger or OpenAPI.
* Developed microservices using programming languages such as Java, Node.js, Python utilizing frameworks like Spring Boot, Express.js.
* Made use of Redux Saga middleware to access redux application state and dispatched redux actions.
* Used React Observables to create custom components for data manipulations and to display in company standard format.

**Environment:** JavaScript, JDBC, Oracle 11g, Eclipse, Windows, SQL, CSS, Angular JS, Html 5, CSS3, AJAX, JSON, Node.js, Express.js, XML, Jasmine, AEM, Responsive Web Design, IE 6, 7, 8, 9, 10, Firefox, Chrome, MVC Spring Bootstrap.

**Client: Walmart, Bentonville, Arkansas Aug 2022 - Dec 2022**

**Role: Java Developer**

**Responsibilities:**

* Developed single page applications using React Redux architecture, ES6, web pack and grunt.
* Developed various screens for the front end using ReactJS and used various predefined components from NPM (Node Package Manager).
* Involved in creating a reusable component using React JS for DOM manipulation
* Basically, replace all React class components with functional component for stateful management, replaced with new Hooks like useState, useEffect, useReducer, and useRef.
* Incorporated react-redux for global state management, mainly for authentication process, and added redux for asynchronous handling.
* Integrated Java applications with cloud-native databases such as Amazon RDS (Relational Database Service), Azure SQL Database, optimizing database performance and scalability.
* Developed custom message producers and consumers in Java languages, leveraging ActiveMQ APIs and client libraries.
* Configured Route 53 health checks to monitor the health of endpoints and automatically failover traffic to healthy endpoints in case of failures, ensuring high availability and reliability.
* Conducted load testing and performance tuning of RESTful APIs using tools like Apache JMeter, identifying, and resolving performance bottlenecks.
* Integrated code quality analysis tools such as SonarQube or CodeClimate into CI pipelines to enforce coding standards and identify code smells and vulnerabilities.
* Successfully ingested and transformed data into MongoDB from various sources, often using Extract, Transform, Load (ETL) processes.
* Worked with JBoss EAP, overseeing the deployment and maintenance of enterprise-level applications.
* Implemented the Apache Struts framework to facilitate the development of scalable and maintainable web applications
* Specific tasks you performed using Camunda, such as process modeling, business rule implementation, task configuration, etc.
* Implemented Angular modules, components, services, and directives to build modular and maintainable codebases.
* Containerized Spring Boot applications using Docker, enabling consistent deployment and scalability across different environments and platforms.
* Enhanced the React Observables with Redux, React-router and Redux-thunk.
* Developing and designing SPA user Interface in ReactJS.
* Used JavaScript data visualization libraries like Recharts to display the information in a chart view.
* Have independently worked on migrating all the applications developed in Angular and NestJS
* Implemented State management in Angular using NgRX and API gateway for all the outgoing RESTful calls from Angular to Spring Boot

**Environment:**React.js, Redux, Flex, Node.JS, Next Js, Jest, Express JS, JavaScript, HTML5, SAAS, CI/CD, CSS3, JQuery, JSON, Bootstrap, AJAX, Angular JS, Core Java, Mocha, TDD, MVS, WebDriver, Sublime, GIT, Grunt, Firebug, Agile development, Optimizely, Jira, AWS, Angular

**Client: VISA Austin, TX Aug 2021 - Aug2022**

**Role: Full Stack Developer**

**Responsibilities:**

* Included integration and design of new application systems and/or life-cycle enhancement to existing complex multi-platform (Java) systems.
* Experience in the design, code, test, and deploy J2EE
* Develop in Kotlin and Java to produce increments of value in our products.
* Research and resolve bugs/issues that come up with products or implementations.
* Participate in architectural discussions, code reviews, paired programming, and story point sessions to drive agility in the development process.
* Optimized Lambda function performance by tuning memory allocation, configuring timeouts, and utilizing execution environment optimizations, ensuring efficient resource utilization and reduced latency.
* Identified and resolved performance bottlenecks in Oracle databases and applications through performance monitoring, tuning, and optimization techniques.
* Experience in BPMN elements such as tasks, gateways, events, and pools/lanes.
* Implemented client-side form validations and error handling using React forms libraries like React Hook Form, enhancing user input validation and data integrity.
* Implemented Azure DevOps pipelines for continuous integration and continuous deployment (CI/CD), streamlining application release processes.
* Established CI/CD pipelines for Java applications on cloud platforms using tools like Jenkins, GitLab CI/CD, or AWS Code Pipeline, automating build, test, and deployment processes for faster delivery cycles.
* Designed partitioning and clustering keys to optimize query performance and data distribution across nodes.
* Integrated Lambda functions with other AWS services such as S3, DynamoDB, API Gateway, and SNS for building fully serverless workflows.
* Designed and developed RESTful APIs with Node.js, implementing CRUD operations, data validation, and authentication.
* Enhanced container security by implementing security best practices, such as PodSecurityPolicies and image scanning.
* Created and maintained documentation for SDKs and APIs, ensuring clarity and ease of use for developers.
* Involved in the creation of exhaustive JUnit Unit Test Cases for each java class that is being developed for this application using a mocking framework Mockito using Test Driven Development technique.
* Running Tests and writing Swagger specifications for few micro services.
* Used Jira to monitor agile process, hands on experience to create, manage stories for each sprint and complete post sprint activities.

**Environment:** JDK1.8, HTML, CSS, JavaScript, jQuery, Agile, Java Swing, Hibernate, Spring Batch, Spring Security, Spring Boot, Restful, XML, Apache Tomcat, JSON, Log4j, web services, Linux, MySQL, Eclipse, Junit, Devops JIRA, GIT

**Client: JP Morgan chase, Columbus, OH Jan 2020 - July 2021**

**Role: Full Stack Developer**

**Responsibilities:**

* Used Spring Framework 4.1 for the application development.
* Implemented reactive data access using Spring Data Reactive Repositories, interacting with databases like MongoDB or Cassandra
* Integrated RESTful APIs and HTTP services using Angular Http Client module, enabling seamless communication with backend systems.
* Implemented Docker security best practices, including container isolation, image scanning for vulnerabilities, and applying least privilege principles to container permissions.
* Configured container networking within OpenShift clusters using software-defined networking (SDN) solutions like OpenShift SDN
* Integrated Java applications with cloud monitoring and logging services such as AWS CloudWatch, Azure Monitor, or Google Cloud Logging, enabling real-time monitoring, troubleshooting, and performance optimization.
* Implemented monitoring and logging solutions using tools like Prometheus, Grafana, ELK stack (Elasticsearch, Logstash, Kibana), or AWS CloudWatch to track web service performance, diagnose issues, and optimize resource utilization.
* Used Spring for bean instantiation, annotations, controllers, request mapping to handle the webservice

request and response.

Developed custom message producers and consumers in Java, .NET, or other programming languages, leveraging ActiveMQ APIs and client libraries.

Designed and implemented serverless architectures using AWS Lambda, API Gateway, and DynamoDB, reducing infrastructure management overhead and improving scalability and agility.

* Developed REST Web services to make web service calls simple and easy for the client to access it with

the help of standard HTTP URIs

* Design and developed request and response XML Schema (XSD) documents for webservice operations

such as Retrieve History.

Developing Intranet Web Application using J2EE architecture, using JSP to design the user interfaces and hibernate for database connectivity.

* Developed web service client using Spring Framework and REST HTTP protocol to get customer

credentials and information.

Implemented monitoring and logging solutions using AWS CloudWatch, CloudTrail, and AWS X-Ray, enabling real-time monitoring, alerting, and troubleshooting of AWS resources.

* Responsible for creating efficient design and developing User Interaction screens using

JavaScript, jQuery, AJAX and JSON.

Implemented CI/CD pipelines using AWS CodePipeline, CodeBuild, and CodeDeploy, enabling automated testing, building, and deployment of applications.

* Deploy application to AWS and monitored the load balancing of different EC2 instances.
* Designed and developed RESTful or SOAP-based web services using frameworks such as Spring Boot, Django Rest Framework, Web API to expose functionality and data to client applications.
* Used Gradle for the project management like build, install.
* Deployed application on Apache Tomcat server.
* Conducted performance tuning of Cassandra clusters, identifying and resolving bottlenecks for improved system efficiency.
* Running Tests and writing Swagger specifications for few micro services.
* Implemented Azure Traffic Manager for global load balancing and high availability
* Involved extensively in Code Reviews, Unit testing and Process Improvements.

**Environment:** JDK 1.8, Spring Boot, Spring MVC, Micro Services, Spring AOP, Hibernate 4.0, JAX-RS Webservices, AJAX, UML, Oracle 11g,19c, WebLogic 10.1, Eclipse 4.2, IntelliJ, Junit, SOAPUI, Log4j, Maven 3.1, AWS, Maven, Gradle, Hudson, Junit 4.1, Selenium, JIRA, GIT, BITBUCKET, Cucumber.

**Client: Staples, Boston, MA July 2019 - Dec 2019**

**Role: Full Stack Java Developer**

#### Responsibilities:

* Involved in various Software Development Life Cycle phases of the project like Requirement gathering, development, enhancements using agile methodology.
* Designed and implemented complex data bindings and dynamic UI components using Angular templates and data-binding syntax.
* Working with Agile, Scrum methodology with Daily scrum meetings, sprint planning, technical design sessions, sprint retrospection to ensure delivery of high-quality work with every monthly iteration.
* Designed front-end pages by using HTML, CSS, Java script and Angular JS
* Effectively Used J2EE technologies such as Servlets, Sessions, Java Beans, Transactions.
* Configured the application Context for spring bean definition, bean wiring, data source configuration and dependency injection to decouple objects.
* Integrated authentication and authorization mechanisms such as OAuth 2.0, JWT (JSON Web Tokens), or API keys to secure access to web services and protect sensitive data from unauthorized access.
* Proficient in creating and managing S3 buckets for storing and retrieving data at scale.
* Designed, implemented, and maintained messaging architectures using ActiveMQ, ensuring reliable and efficient communication between distributed systems
* Experienced in deploying applications to OpenShift clusters using various deployment strategies such as rolling deployments, blue-green deployments, and canary deployments.
* Implemented CI/CD pipelines using AWS Code Pipeline, Code Build, and Code Deploy, enabling automated testing, building, and deployment of applications.
* Created data model and generated Hibernate mappings and domain objects using Hibernate tools.
* Developed client-side code using AJAX to access the REST based web services.
* Developed long-term secure solutions that manage authentication and security across the application.
* Spring Boot framework maintaining security using spring security framework.​
* Utilized React JS Virtual Dom for updating DOM manipulations.
* Created reusable and testable React JS functional and class components using ES6.
* Used (Jenkins Build pipelines, unit tests, automation tests and moving code to production quickly).
* Used Jira to monitor agile process, hands on experience to create, manage stories for each sprint and complete post sprint activities.
* Developed the application using Eclipse as the IDE and used its features for editing, debugging, compiling, formatting, build automation and version control (GIT).
* Experience in Integration of Amazon Web Services (AWS) with other applications infrastructure
* Evaluate alternate technologies and solutions and provide recommendations.

**Environment:** JDK1.8, HTML, CSS, JavaScript, jQuery, Agile, Hibernate, Spring Batch, Spring Security, Spring Boot, Restful, XML, Apache Tomcat, JSON, Log4j, web services, Linux, MySQL, Eclipse, Junit, JIRA, GIT

**Client: State of Wyoming, Casper, Wyoming Aug 2018- June 2019**

**Role: Full Stack Java Developer**

Responsibilities:

* Involved in developing Webservice operations in Service Oriented Architecture (SOA).
* Analyze requirements with team; write High Level design documents, System Use Case, analyze risk factors.
* Implemented client-side form validations and error handling using Angular reactive forms or template-driven forms, ensuring data integrity and user input validation.
* Developed disaster recovery plans and procedures to ensure Kafka cluster resilience in the face of failures or data loss.
* Integrated CI tools with version control systems Git to trigger automated builds and tests upon code commits.
* Implemented caching solutions using Spring Boot's caching abstraction or caching providers like Redis improving application performance and scalability.
* Designed and implemented a real-time analytics dashboard using Spring Reactive, processing and visualizing streaming data
* Designed and implemented web applications following the Model-View-Controller (MVC) architecture provided by the Struts framework
* Implemented various deployment strategies such as blue-green deployments, canary releases, or rolling updates to minimize downtime and mitigate risks during deployments.
* Responsible for Web UI development in JavaScript using jQuery, AngularJS, and AJAX.
* Involved in front end development using Struts, JSP's, JSF and JSTL.
* Responsible for creating efficient design and developing User Interaction screens using HTML, CSS, JavaScript, JQuery, AJAX and JSON.
* Implementing JSP Standard Tag Libraries (JSTL) along with Expression Language (EL).
* Creating custom, general use modules and components, which extend the elements and modules of core AngularJS.
* Used log4j for logging errors, info, and exceptions.
* Involved extensively in Code Reviews, Unit testing and Process Improvements.

#### Environment:

JDK 1.7, Spring 4.1(DI, MVC, Tran Management, Integration, AOP, Boot), Spring Boot, Hibernate 4.0, JAX-RS Webservices, JAX-WS Webservices, jQuery 1.9, JQueryUI, AJAX, UML, MS Visio, JSTL, Oracle 11g, WebLogic 12.1, Eclipse 4.2, Junit, SOAPUI 5.1, Log4j, Maven 3.1, GIT, AWS, NodeJS, Bootstrap, AngularJS, HTML5, CSS3, Toad, Maven, Hudson, Junit 4.1, Selenium, JIRA, Selenium, Easy Mock, Grunt, OpenStack, Microsoft Azure.

**Client: Macy’s Systems and Technology, Atlanta, GA Aug 2016– May 2018**

**Role: Java Developer**

#### Responsibilities:

* Designed the Web Application Using Spring MVC (Model View Controller) pattern to make it extensible and flexible.
* Actively participated in requirements gathering, analysis, design, development and testing phases, and responsible for the full stack development.
* Developed user interface using HTML, CSS, Java Script, Ajax and jQuery
* Developed the application using Spring MVC, Spring Web flow and added asynchronous features using AJAX.
* Optimized application performance by implementing lazy loading, code splitting, and other optimization techniques, resulting in faster page load times and improved user experience.
* Designed and optimized database schemas using SQL and ORM frameworks like Hibernate, improving data retrieval efficiency.
* Focused primarily on the MVC components such as Dispatcher Servlets, Controllers, Model and View Objects, View Resolver.
* Implemented the Web Service client for the login authentication, credit reports and applicant information using JAX-WS and Apache Axis.
* Worked on Hibernate object/relational mapping according to database schema.
* Effective using in ClearCase and ClearQuest for version control and defect tracking

#### Environment:

Java, J2EE, Spring MVC, REST, Restful API, JAX-WS, Apache Axis, JDBC, LDAP, Hibernate, JAXB, JMS, ActiveMQ, JSF, HTML5, CSS3, JavaScript, Ajax, JavaScript, JIRA, JBOSS, ANTs, JUnit.

**Client Name: Yana Software LLC, Hyd, India Jun 2014– Mar 2015**

**Project Role: Web Developer**

Responsibilities:

* Participated in users’ meetings along with the Business Analyst for requirements gathering and analysis.
* Developed dynamic and interactive web applications using JavaScript, HTML, and CSS, to create seamless user experiences.
* Developed semantically structured HTML markup for web pages, ensuring accessibility, SEO-friendliness, and maintainability.
* Implemented SQL queries, stored procedures, and triggers to perform data manipulation, validation, and business logic enforcement within the Oracle database.
* Configured Maven project structures and build configurations using Maven Project Object Model (POM), defining project metadata, dependencies, and plugins
* Implemented responsive web designs using CSS media queries and flexbox/grid layouts, ensuring adaptability to various viewport sizes and device orientations.
* Designed and implemented custom monitoring checks and scripts to monitor system metrics, application health, and performance indicators.
* Integrated RESTful APIs and web services into frontend applications using JavaScript Fetch API or Axios, enabling seamless data exchange and functionality extension.

Environment: HTML, XML, CSS, JavaScript, JDBC, Oracle 11g, Eclipse, Windows, SQL, CSS.

**Education**: Master's in computer science, NPU, Fremont, CA, Dec 2016