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.
* Designed and optimized database schemas using SQL and ORM frameworks like Hibernate, improving data retrieval efficiency
* Implemented RESTful web services using Spring Framework, facilitating seamless communication between client and server
* Integrated Spring Batch applications with monitoring tools like Spring Boot Actuator or third-party monitoring solutions to monitor job execution status, track performance metrics, and troubleshoot issues
* 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.
* Managed data migration projects, ensuring accurate transfer of information from legacy systems to Dynamics 365 while adhering to data integrity standards.
* Utilized AWS serverless services such as DynamoDB, S3, and Aurora Serverless for data storage, retrieval, and processing in serverless applications.
* Built dynamic and interactive user interfaces with Node.js and frontend frameworks like Angular, React, or Vue.js, utilizing components, services, and state management libraries to create engaging user experiences.
* Configured and customized Oracle applications modules to align with business processes and requirements.
* Designed and implemented microservices architecture using AWS Lambda functions, decomposing monolithic applications into smaller, independently deployable units.
* Designed and developed responsive and interactive user interfaces with Angular 10, utilizing features such as components, services, directives, and reactive forms.
* 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, Angular 2/4/6/10/14/16 |
| Java Frameworks | Struts 1.2, Struts 2.1, Spring MVC, DI, AOP, Spring Boot, JSF 1.1, JSF 2.1 |
| Database Tools | 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 ServersAmazon web services | Tomcat 5.0,6.0,7.1EC2, 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
* Integrated Dynamics 365 with other systems and applications using Power Automate, Azure Logic Apps, and custom integrations, enabling seamless data flow and process automation across the organization.
* Developed responsive and interactive web applications using Angular framework, delivering intuitive user interfaces and exceptional user experiences.
* Integrated with third-party libraries and frameworks such as Angular Material to enhance the UI/UX of Angular 10 applications, providing rich and customizable UI components and styles.
* Developed RESTful web services using Spring Boot framework, resulting in improved efficiency and reduced response times by 30%.
* Integrated Node.js into the development stack to build real-time features, utilizing frameworks like Socket.IO for WebSocket support and event-driven communication.
* Utilized Spring Batch's chunk-based processing model to process large datasets in smaller, manageable chunks, optimizing memory usage and improving performance.
* 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
* Developed dynamic and responsive user interfaces using Angular 10+ framework
* 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.
* 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
* 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.

**Environment:** JavaScript, JDBC, Oracle 11g, Eclipse, Windows, SQL, CSS, Angular JS, Html 5, CSS3, AJAX, JSON, Node.js, Express.js, Spring Boot, 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
* Integrated third-party APIs and services into Spring Boot applications to enhance functionality and provide seamless user experiences.
* 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.
* Defined batch jobs, steps, and job flows using Spring Batch's XML configuration or Java-based configuration, orchestrating complex data processing workflows.
* 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.
* Integrated third-party libraries and APIs into Angular 10 applications to extend functionality and meet project requirements.
* Conducted load testing and performance tuning of RESTful APIs using tools like Apache JMeter, identifying, and resolving performance bottlenecks.
* Successfully ingested and transformed data into MongoDB from various sources, often using Extract, Transform, Load (ETL) processes.
* Utilized RxJS (Reactive Extensions for JavaScript) in Angular 10 applications to manage asynchronous operations and handle streams of data, ensuring smooth and responsive user experiences
* 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, Spring Boot, 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.
* Implemented microservices architecture using Spring Cloud, Docker, and Kubernetes, enabling scalable and resilient application deployments.
* Developed full-stack web applications using Angular 10 for the frontend and Node.js for the backend, leveraging their respective strengths in building dynamic user interfaces and scalable server-side logic.
* 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.
* Integrated APIs with containerization platforms like Docker and orchestration tools like Kubernetes for scalable and resilient deployment
* Optimized Lambda function performance by tuning memory allocation, configuring timeouts, and utilizing execution environment optimizations, ensuring efficient resource utilization and reduced latency.
* Implemented Angular 10 features such as components, directives, services, and dependency injection to build modular and reusable codebase.
* Utilized Spring Boot Actuator to monitor and manage application health, metrics, and endpoints, facilitating operational insights and troubleshooting in production environments.
* Proficiency in customizing and configuring Dynamics 365 modules such as Sales, Customer Service, and Field Service to meet unique business requirements, including custom entity creation, form customization, and workflow automation.
* 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.
* 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, Node JS, Apache Tomcat, JSON, Log4j, web services, Linux, MySQL, Eclipse, Junit, 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
* Optimized API performance by implementing caching strategies using Spring Cache abstraction or external caching solutions like Redis.
* 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.
* Utilized Spring Boot Test framework to write unit tests and integration tests for Spring Boot applications, ensuring code quality and reliability through automated testing.
* Identified and resolved complex technical issues and system discrepancies during Dynamics 365 implementations, leveraging troubleshooting skills and collaboration with cross-functional teams to deliver timely solutions and minimize project disruptions.
* 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.
* Implemented routing and navigation in Angular 10 applications, configuring lazy loading and route guards to optimize performance and enhance security.
* 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.

* 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.
* Integrated AWS Lambda into serverless architectures, often using AWS API Gateway for HTTP triggering
* Designed and implemented reusable UI components and modules in Angular 10, promoting code reusability and maintainability across different parts of the application.
* Implemented authentication and authorization mechanisms using JWT (JSON Web Tokens) or OAuth in Node.js applications.
* Produced and consumes Restful APIs in spring Boot.
* Conducted performance tuning of Cassandra clusters, identifying and resolving bottlenecks for improved system efficiency.
* Integrated third-party libraries and APIs into Angular applications to extend functionality and meet project requirements.
* 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, Spring Boot, ,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.
* Documented APIs using tools like Swagger, generating interactive API documentation and client SDKs automatically.
* 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.
* Implemented state management in Angular using NgRx and API gateway for all the outgoing RESTful calls from Angular to spring boot in NestJS.
* Employed reactive forms and form validation in Angular 10 to create dynamic and user-friendly input forms, handling user input and validation logic with ease.
* 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.
* Integrated Spring Batch with other components of the Spring ecosystem such as Spring Boot, Spring Data, and Spring Integration to build comprehensive enterprise-grade batch processing solutions.
* 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.
* \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 microservices architecture using Spring Boot, leveraging its latest features such as improved startup performance and reduced memory footprint.
* 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, Node JS, 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).
* Implemented client-side form validations and error handling using Angular reactive forms or template-driven forms, ensuring data integrity and user input validation.
* 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
* Utilized npm (Node Package Manager) and webpack for frontend build and dependency management, optimizing asset delivery and enhancing frontend performance in Node.js applications
* 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.
* Implemented internationalization (i18n) and localization in Angular 10 applications, supporting multiple languages and locales to cater to diverse user populations.
* 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, Oracle 11g, WebLogic 12.1, Eclipse 4.2, Junit, SOAPUI 5.1, Log4j, Maven 3.1, GIT, AWS, NodeJS, Bootstrap, AngularJS, HTML5, CSS3

**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.
* Developed microservices using programming languages such as Java, Node.js, Python utilizing frameworks like Spring Boot, Express.js.
* 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, Spring Boot, 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 enabling seamless data exchange and functionality extension.

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

EDUCATION:

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