1. **Shirisha**

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**Professional Summary**:

* Skilled Sr. Full Stack Developer with 9 years of broad experience in complete Software Development Life Cycle (**SDLC**) using **Java /J2EE** technologies in Client/Server, web-based, and distributed architectures, Including requirement analysis, design, coding, testing and debugging, deployment, support, and software optimization.
* Extensive experience in **Agile** software development processes such as **TDD**, **BDD**, **SCRUM**, Incremental, and Iteration methodology.
* Hands-on experience in configuration, deployment, and support of highly scalable and fault-tolerant systems in, **AWS cloud** using **AWS** EC2, VPC**,** Route53, Cloud Watch, Cloud Front, **Cloud Formation,** IAM, AMI, S3**,** Glacier, RDS, Elastic Cache, **DynamoDB**, SNS, SES, SQS, EMR, ELB,Autoscaling**, Lambda, EKS, ECS.**
* Expertise in implementingenterprise web-based applications using **Java**/**J2EE** technologies such as JSP, Servlets, JSF, JSTL, EJB, JMS, Java Beans, JDBC, **Web Services**, JNDI, **Spring**, **Spring boot, Hibernate,** JSON**,** Struts, Design Patterns, **Microservices**.
* Expertise in Core Java concepts such as **OOPs**, Exception Handling**, Multithreading, Concurrency**, **Collections**, Reflection, Annotations, JDBC, I/O, Generics,Synchronization**,** Streams**,** Serializationand **Data Structures and Algorithms**.
* Expertise in configuring **Spring Application Context** with **Dependency Injection** and various **Spring** framework modules such as **MVC**, AOP,IOC, Batch, **Cloud**, Security, Microservices, **Data JPA**, **Spring** **Integration,** and **Spring Boot.**
* Skilled in web application development, validation, and web user interface with W3C standards HTML5, DHTML, XHTML**,** CSS3(SASS/LESS),**JS, AngularJS**, **Angular5+**, JavaScript with ECMA6**+,** TypeScript, jQuery, Bootstrap, AJAX**, NodeJS.**
* Strong experience in producing and consuming **SOAP** and **RESTful** Web Services using **JAX-RS**, **JAX-WS, WSDL, JAX-B** APIsand implemented using **Jersey** and **Apache CXF** libraries**.**
* Expertise in deploying Java, J2EE applications on **Apache Tomcat web server** and **IBM WebSphere**, **Oracle** **WebLogic**, **JBoss** application servers.
* Extensive experience in developing **Microservices** using **Spring Boot**, **Netflix OSS** components (Eureka, Zuul, Hystrix, Ribbon), and hosting on **PCF** and **AWS**.
* Expertise in design anddevelopment of **PL/SQL** and **SQL**Stored Procedures, joins indexes, functions, triggers in using Oracle, SQL Server, DB2, PostgreSQL, MySQL,and **NoSQL** (MongoDB, CosmosDB, Cassandra DB, DynamoDB) databases**.**
* Expertise in **Azure Cloud** service (**PaaS** and **IaaS**) Application Insights, Azure Monitoring, Key vault.
* Extensive experience in Implementing **Docker** container service**, Kubernetes**, installing and configuring **Jenkins**, **Bamboo** for **(CI/CD**) pipeline jobs.
* Experienced in AWS Cloud Automation using **Terraform** and architecting AWS network infrastructures and CI/CD pipelines in Terraform.
* Experience in configuration management tools like **Ansible.**
* Expertise in scripting for automationand monitoringusing **Shell** and **Python** scripts**.**
* Experienced in **Splunk** developer to build reports, dashboards, alerts and general Splunk engineering for different Internal groups.
* Experience in building real-time dashboard applications for visualization and analyticsusing **Elastic Search,** Logstashand Kibana **(ELK),** and **Splunk.**
* Experienced with message queuing tools such as **Kafka, RabbitMQ**, JMS, and SQS.
* Solid experience in Unit testing, Integration testing, E2E testing, and generation of test cases using **JUnit**, **Mockito,** Power Mock**, Jest, Jasmine**, **Cucumber, Selenium**.

**Technical Skills:**

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| --- | --- |
| **Programming Lang** | Java, C++, C, Python, PL/SQL. |
| **Java/J2EE**  | Servlets, JSP, EJB, Java Beans, JDBC, JNDI, JMS, JSF, JSTL, Multithreading, Generics, Concurrency and Collections. |
| **Web Services** | JAX-WS, JAX-RS, SOAP, WSDL, REST, Apache CXF, Axis2, Jersey |
| **Web Technologies** | JavaScript, TypeScript, jQuery, Ajax, HTML5, DHTML, XML, XSLT, CSS3, XPath, XML, JSON, NodeJS, Angular JS, Angular5+, React JS, Bootstrap. |
| **Frameworks** | Spring, Hibernate, Spring Boot, Spring Security, Spring Data JPA, Spring MVC  |
| **Databases** | Oracle, MySQL, SQL Server, DB2, PostgreSQL, MongoDB, Cassandra, Cosmos DB, DynamoDB. |
| **Web/App servers** | WebLogic, WebSphere, Tomcat web server, JBoss/Wild Fly. |
| **IDE** | Eclipse, Visual Studio, IntelliJ, RAD.  |
| **Version Control** | Git, Gitlab, Bit Bucket, SVN. |
| **Build Tools** | Maven, Ant, Gradle. |
| **CI/CD Tools** | Jenkins, Bamboo, Docker, Kubernetes, Ansible. |
| **Testing and Logging Tools** | Junit, Mockito, Selenium, TestNG, PowerMock, Jasmine, Protractor, JMeter, Jest, Enzyme, Cucumber, Log4J. |
| **Operating Systems** | Windows, Linux, Unix. |

**Professional Experience:**

**Client: Humana,** [**Louisville, KY**](https://www.google.com/search?q=Louisville&stick=H4sIAAAAAAAAAOPgE-LUz9U3MDYuyTBR4gAx0-LjDbW0spOt9POL0hPzMqsSSzLz81A4VhmpiSmFpYlFJalFxYtYuXzySzOLyzJzclJ3sDLuYmfiYAAAh0LnbVgAAAA&sa=X&ved=2ahUKEwixj_KLir36AhXilIkEHdfOCBEQmxMoAXoECGcQAw) **Feb 2020 – Present**

**Role: Senior Java Software Developer**

**Responsibilities:**

* Involved in analysis, design, development, and testing the application in bi-weekly sprints using **Agile (Scrum) methodology** and participated in daily scrum meetings.
* Followed **TDD** environment throughout the process of building the application using **Jasmine**.
* Worked extensively in the development of **Microservices** based on **REST API** with **Spring Boot,** Spring Data JPA, and provided security to the application using Spring Security and **OAuth 2.0** with **JWT** to secure API endpoints.
* Worked on **Spring Batch** to generate andrun multiple jobs parallelly using **Quartz Scheduler.**
* Consumed and developed **SOAP** and **REST** web services using **CXF** and integrated them with **Mule ESB.**
* Used **Swagger** with **Spring Boot** for documentation of APIs.
* Used **AWS API Gateway** to make RESTFUL API calls to DynamoDB**.**
* Designed and implemented persistence interfaces using **Hibernate** and **Spring Data JPA** to connect to the database.
* Performed **CRUD** operations in **MongoDB** and used Mongoose API to access the MongoDB.
* Used **Redis Cache** in MongoDB to increase the application's performance using Spring Boot. Worked on designing UI components with **ReactJS**, **Redux**, HTML5, JavaScript, CSS3, jQuery, AJAX, **Node JS, Express JS,** **Bootstrap**.
* Used **React JS** in components like JSX, creating React components, Virtual DOM, React Props, Lifecycle methods, working with React states and events.
* Worked on **Kafka** as a message queuing system for communication between microservices and external data sources asynchronously and monitored the Kafka cluster nodes using **Zookeeper** for efficiency.
* Implemented Spring boot microservices to process the messages into the **Kafka** cluster setup.
* Built the **Elastic search, Log stash, and Kibana** (ELK) for centralized logging and to store and index logs, metrics into the S3 bucket by triggering the Lambda function.
* Implemented to reprocess the failure messages in **Kafka** using offset id.
* Implemented **Kafka** producer and consumer applications on Kafka cluster setup with help of Zookeeper.
* Responsible for **Redux** store to local storage and restoring it to start on logging actions, maintaining state, asynchronous processing in action creators via promise APIs.
* Migrated existing databases and workloads from on-premises to AWS using **AWS DMS** (Data Migration Service), **AWS SCT** (Schema Conversion Tool), and AWS Migration Hub.
* Involved in designing and deploying applications using the **AWS** stack (VPC, Route53, ELB, EC2, S3, RDS, Lambda, Dynamo DB, SNS, SQS, IAM, Cloud Watch), focusing on high-availability, fault tolerance, and auto-scaling using **Terraform** and **Cloud Formation** templates in JSON.
* Used AWS **Lambda** functions to detect the source file and bring up the EMR clusters to process the data to do the normalization and ETL before persisting into AWS **DynamoDB.**
* Worked on a NodeJS application, setting it up, configuring it, managing scripts, and sending email via NodemoN to other systems. Created REST APIs for Web UI access.
* Worked on Express to build Routes for APIs and configure on front end applications using Axios (GET, POST, PUT and DELETE).
* Utilized **Docker** to create a docker image of the application using Docker File and pushed it to Docker Registry.
* Utilized **Ansible** to automate the infrastructure and deploy the application on the target host (EC2).
* Implemented **Terraform** as Infrastructure as a code and maintained the state of infrastructure in the **S3** bucket.
* Worked on setting up **CI/CD** pipeline using Gitlab webhooks, Docker, Ansible playbooks, Terraform, Jenkins and **EKS**.
* Developed test cases using **Jasmine** and **karma** in unit test and used **Cucumber** for integration, E2E testing.
* Configured and deployed the application onto the **JBoss** app server using **Maven** for automation of deployment builds.
* **JIRA** for bug tracking, monitoring of task assignments in the system.
* Worked with **SonarQube** for code analysis to improve code quality.
* Used **Gitlab** to keep track of source code versioning.

**Environment:** Java, J2EE, Spring Boot, Spring Data, Spring Batch, Hibernate, MVC, HTML5, CSS3, React JS, Redux, Microservices, Web Services, REST Client, JavaScript, jQuery, AJAX, NodeJS, Express JS, ELK, JDBC, JSTL, jQuery, JMS, XML, SOAP, Gitlab, AWS, EKS, MongoDB, DynamoDB, Terraform, Ansible, SonarQube, Redis Cache, Kafka, Kubernetes, Jenkins, JIRA, Jasmine, Karma, Cucumber, JBoss and Agile.

**Client: Verizon, TX July 2019 - Jan 2020**

**Role: Senior Java Software Engineer**

**Responsibilities:**

* Involved in all phases of the Software development life cycle (**SDLC**) using **Agile** methodology and followed **TDD**.
* Implemented different Design patterns like Factory, Singleton, Builder, and Strategy.
* Migrated existing monolithic architecture to **Spring Boot Microservices** and then to **Azure** cloud.
* Developed classes using Core Java concepts like Multithreading, Exception Handling, Collections, and Concurrency.
* Designed and developed Spring Boot for **Microservices** and **Spring Boot** for **Rest APIs,** Spring Core Annotations for Spring DI.
* Consumed and developed **SOAP** web services, configuring WSDL using Apache **Axis2.**
* Implemented different modules of Spring framework such as Spring **IOC** and Spring **AOP**.
* Implemented **Spring security** along with **OAuth2.0** for authentication and authorization of application.
* Implemented Data access layer utilizing Spring **JPA** and Spring **JDBC** to execute CRUD operations on Azure **Cosmos DB** and **SQL server**.
* Developed SQL queries, Azure Cosmos DB User defined functions, and Stored Procedures to persist and validate data. Active in the optimization of current SQL queries as well.
* Developed UI using HTML5, CSS3**,** DOM**,** TypeScript,jQuery**,** Bootstrap, JSON, AJAX, and **Angular** to create Single Page Application (**SPA**).
* Involved in the creation of Angular controllers, services, filters, and configured routing using Angular UI Router.
* Wrote various **Kafka** and Azure **EventHub** Listeners to process real-time data stream parallelly.
* Leveraged Azure Services not limited to Azure AD, Storage, Service Bus, Key Vault, and Application Insights, Azure Functions, Web APPS, APP Services, EventHub, Security Center, Azure CDN, and Azure Redis Cache.
* Utilized Azure **Functions** to integrate applications and run back-end processes according to schedules without provisioning/managing servers. Improved application security with Azure **AD** multi-factor authentication.
* Worked on Azure **Redis Cache** for performance and Azure **Service Bus** Queues for asynchronous messaging where required. Migrated several back-end processes to Azure **Web Jobs** and deployed as Azure **App Service** applications.
* Worked on **Ansible** playbook to provision Azure Web Apps and then continuously build and deploy a Java Spring Boot application to Azure Web Apps.
* Automated Infrastructure using **Terraform** with **Bash** and **PowerShell** and converted existing ARM Templates to Terraform.
* Created **Docker** images using a Docker File and used Docker compose to configure application services and pushed it Azure Container Registry (**ACS**) and used (**AKS**) to orchestrate the Docker containers.
* Designed and implemented automated CI/CD build and pipelines for code deployment using GitHub webhooks, Ansible playbook, Docker, **Jenkins**, and AKS.
* Developed build deployment scripts using **Maven** and **Shell** Scripts on environment and deployed applications using **WebLogic** application server. Used **Log4j** for logging and debugging.
* Used **JIRA** for bug tracking and pull requests. **Confluence** to collaborate and share important info and management, and **GIT-Bitbucket** for source control.
* Developed unit test cases using **JUnit**, **Mockito** and performed integration and performance testing using **JMeter**.

**Environment:** Java, J2EE, JDBC, JPA, Spring MVC, Spring Boot, HTML5, CSS3, XML, TypeScript, Ajax, jQuery, Angular, Azure, AKS, Cosmos DB, SQL Server, Log4j, SOAP, REST, XML, WebLogic, Terraform, Ansible, Jenkins, Kafka, Axis2, Maven, Git, Docker, JUnit, Mockito, JMeter, Atlassian Stash (Jira, Confluence, Bitbucket).

**Client: Thermofisher scientific, San Diego, CA Feb 2019 – June 2019**

**Role: Java Software Developer**

**Responsibilities:**

* Followed **Agile**, **TDD** and involved in daily **SCRUM** meetings, Sprint Planning, Reviews, and Retrospective.
* Implemented Multithreading, Collections APIs, Exception Handling, Concurrency, Synchronization, and Executer service to implement various features and enhancements.
* Worked with Streams, lambda's, and functional interfaces using Java 8.
* Involved in integrating **JAX-RS** into **Spring Boot** application. Worked on **Microservices** using Spring Boot, Spring Cloud, **Spring Security**.
* Developed the persistence layer using **Hibernate** Framework, created the POJO objects, and mapped using Hibernate annotations and Transaction Management.
* Involved in developing applications using **PostgreSQL** and wrote **SQL** and **PL/SQL** queries to test the data sent through the external **REST** **API** calls.
* Optimized the SQL query performance applied on the **Snowflake** for legacy data.
* Identified database connection leak causing the EC2 instance reboot, production downtime for users, found the root cause of the issue by logging through Spring **AOP** concept.
* Developed the UI layer withHTML5, CSS3, Bootstrap**, JavaScript**,jQuery, **ReactJS**,and **Redux**.
* Used **ReactJS** Virtual DOM for client-side view rendering services, **React-Redux** for global state management, and **React-Router** for methodical navigation.
* Migrated on-premise applications to AWS **ECS** and maintained high availability by configuring **ALB** to route traffic to other availability zones.
* Implemented **Lambda** function in Python via **AWS API Gateway** to pull data in JSON from AWS **Snowflake** and create an excel output file as per requirement.
* Responsible for maintaining and expanding AWS infrastructure using AWS EC2, managing documents in **S3**, providing **IAM** access to S3 buckets.
* Monitored EC2 by creating **CloudWatch** alarms, events to trigger **SNS** notifications when reaching the threshold.
* Customized existing **Docker** containers to generate images by committing container ID for later reuse from Docker Hub.
* Developed a **CI/CD** pipeline to push, deploy code using Git, **Jenkins**, Docker, AWS-AMIs, **ECR,** and **ECS**.
* Implemented **Terraform** to automate the creation of VPCs, ECS, launching EC2 instances, lambda, and container services part of **SAAS** in YAML and JSON formats.
* Developed unit test cases using **Enzyme** and **Jest** and performed end to end, integration testing using **Cucumber** for **BDD** with 100% code coverage.
* Designed and developed **Splunk** Queries and Dashboards and analyzed problems using Splunk queries.
* Built the application using **Maven** and deployed the applications onto the **WebLogic** application server.
* Implemented **Git** merging/branching for code promotion to other environments using git merge, rebasing utilities.
* Perform design and code (PR) reviews and mentored one junior team member.

**Environment:** Java8, J2EE, HTML5, CSS3, JavaScript, React JS, React-Redux, Spring IOC, Spring AOP, Hibernate, Spring Boot, Spring Cloud, Spring Security, RESTful, Microservices, Docker, Terraform, AWS, Jenkins, ECR, ECS, Maven, Eclipse, PostgreSQL, Git, Enzyme, Jest, Cucumber, Splunk, WebLogic.

**Client: Threshold Software Solutions, India June 2018 – Jan 2019 Role: Java Software Engineer**

**Responsibilities:**

* Designed and developed the application using **Agile methodology** and followed **TDD** and **Scrum**.
* Used **Multithreading** in programming to improve overall performance using **Singleton** design pattern in Hibernate Utility class.
* Developed **RESTful** Web Services with **JAX-RS** and Jersey container using **Spring Boot** and **Microservices**.
* Developed application using Core Java**, Spring Boot, Hibernate,** HTML**,** CSS**,** JavaScript,JQuery, and **Angular.**
* Implemented the authentication to develop a secure application using **Spring Security** and **OWASP.**
* Implemented controller’s classes, service classes, DAOs classes as per the **Spring** **Boot** design and business logic using core java API and data structures.
* Developed **RESTful** Web Services with **JAX-RS** and Jersey container using **Spring Boot** and **Microservices**.
* Used **JDBC** and **Hibernate** with the help of Hibernate Transaction Manager for communication with persistence layer.
* Created tables, triggers, PL/SQL, Stored Procedures, SQL queries, Joins, and views for Oracle database.
* Wrote scripts using **NodeJS** to store and retrieve user data from **MongoDB**. Performed CRUD operations like insert, retrieve, modify, and remove Documents in Collections.
* Designed and developed UI using **jQuery,** HTML**,** CSS**, Angular, TypeScript, NodeJS** and **AJAX**.
* Used the basic principles of **MVC** to incorporate **Angular** to build the client-side application and **NodeJS** for creating server-side APIs.
* Repeatedly worked on AWS Cloud platform and its features, including EC2, VPC, AMI, **RDS**, Lambda, SQS, S3, Route 53**, IAM, Cloud Formation** and deployed the web applications using AWS **Elastic Beanstalk.**
* Participated on setting up **Bamboo** by installing, configuring, and maintaining CI/CD pipeline and E2E automation for all build and deployments.
* Deployed multiple **Kubernetes** Clusters in **AWS** and created a **Docker** Image using Docker File, and deployed on top of Kubernetes Cluster.
* Deployed the application using the **WebLogic** Application Server and used **Gradle** for building the deployments.
* Developed and automated test cases using **Selenium** Web Driver and **TestNG** framework.
* Used **Git** for source code management and **Log4j** to log errors and messages.
* Involved in production bug fixes, analyzing, and improving overall application performance.

**Environment:** HTML, CSS, TypeScript, JQuery, Angular, NodeJS, AJAX, JSON, Spring Boot, Hibernate, JAX-RS, Microservices, Kafka, PL/SQL, Restful Web Services, Git, XML, Log4j, Agile, Selenium, TestNG, Gradle, WebLogic, AWS, Docker, Kubernetes, Bamboo, Oracle, MongoDB.

**Client: Gleecus Techlabs, India Jan 2016 – May 2018 Role: Java developer**

**Responsibilities:**

* Involved in Analysis, Design, Development, Deployment, UAT and Production phases of the application.
* Improved the performance of the back-end batch processes using **Multithreading** and concurrent package API**.**
* Developed **Microservices** based on **REST APIs** utilizing **Spring Boot**, **Spring Cloud**, **Spring MVC** and deployed on **PCF** and **AWS**.
* Developed the different components of the application such as Controller, Entity, Service, and DAO.
* Implemented Spring, Netflix's modules such as Eureka (Service Discovery), Hystrix (Circuit Breaker), Ribbon (Client-Side Load Balancing), Spring Cloud Config Server, and Zuul Proxy.
* Implemented secured RESTful APIs using Basic Auth, **LDAP** and **Spring Security** **OAuth2.0.**
* Implemented **Rabbit MQ** for asynchronous communication between modules.
* Performed ORM (Object Relational Mapping) using JPA and **Hibernate.**
* Involved in the process of **Cassandra**data modelling and building efficient data structures.
* Imported data from various resources to the Cassandra cluster using Java APIs.
* Involved in setting up AWS VPC's with public and private subnets, NAT for development, staging and Production environments.
* Experience on using various AWS services like Amazon **EC2**, Elastic IP, **AMI**, **S3**, **VPC**, **RDS**, **ELB**, **SQS** and Auto-scaling.
* Manage internal and external DNS using **Route53**, and other network infrastructure. Manage **IAM** Users and Roles in AWS.
* Created new **S3** buckets for storage of build packs, droplets, packages, and resources.
* Experience with NodeJS and BackboneJS MVC Frameworks in the development of web applications.
* Developed Single Page Application (**SPA**) using **Angular**, Typescript, **Backbone.js, Node.js**, HTML, CSS, and Bootstrap, jQuery.
* Worked with Bootstrap, CSS for the interactive UI and used the jQuery for AJAX calls.
* Worked with Angular modules, services, templates, directives, and dependency injection to consume **REST APIs.**
* Implemented filtering, sorting, and pagination by using the Angular framework.
* Used **NPM** for installing required node modules and other published Angular NPM modules.
* Deployed and tested the applications using Apache **Tomcat**. Used **Maven** as build tool.
* Followed Test Driven Development (**TDD**) and used **Mockito** and **PowerMock**(seldomly) to achieve at least 80% of code coverage.
* Used **Git** as a source code management tool and **Rally**to manage the issues/project workflow.
* Provided production support and troubleshoot the requests from end-users.

**Environment**: Restful web services, Spring Boot, Spring MVC, Spring Cloud, LDAP, Spring Security OAuth2.0, Hibernate, JPA, JMS, Netflix OSS (Eureka, Hystrix, Ribbon, Zuul, Config Server), Rabbit MQ, Hibernate, Scrum, TypeScript, Maven, Cassandra DB, Spring Boot, Rally, AWS, HTML, CSS, jQuery, BackboneJS, NodeJS, Bootstrap, TypeScript, Angular, Mockito, PowerMock, Git, Tomcat, PCF and AWS.

**Client: Inovies, India July 2014 – Dec 2015**

**Role: Java Developer**

**Responsibilities:**

* Involved in requirement gathering phase of SDLC with Business Analyst in Agile (SCRUM) environment.
* Implemented OOP’s concepts like **Multi-threading**, Interfaces, Collections, Exception Handling, and Event Handling.
* Extensively used Java Collections like ArrayList, HashMap, LinkedList, and exceptions to handle errors.
* Designedthe application by implementing **Struts** based on **MVC** Architecture, simple Java Beans as a Model, JSP UI Components as View, and Action Servlet as a Controller.
* Implemented SOAP Web services, configured WSDL using JAX-WS API.
* Used **JAXB** for marshaling/un-marshaling (Writing/Reading) objects into XML and vice versa.
* Implemented Single Sign-On (SSO) functionality with **SAML.**
* Identifiedand created Enterprise Java Beans (EJB). Developed **EJB** like Entity Beans, Session Beans.
* Fulfilled DAO layer with **JDBC API** for database connectivity and manipulation to perform
* Worked on **WebSphere** server to deploy **JSP** and EJB applications and used **Maven** as a build tool.
* Designed UML Use case diagrams, Class diagrams, and Sequence diagrams using Star UML.
* Worked on making a Java Enterprise Application browser compatible across all the major browsers.
* Developed **SQL** and **PL/SQL** queries to implement **CRUD** operations and developed Stored Procedures, Functions to interact with the IBM **DB2** database.
* Used **Git** for Source Code Management (**SCM**) tool and **JIRA** for project management.
* Developed unit test cases using **JUnit** and **SoapUI** for developing Web Services functional tests.
* Conducted UATs and releases.

**Environment**: Core Java, J2EE, Swing, EJB, JSP, WSDL, SOAP, Servlets, Struts, XML, XSL, XSLT, Eclipse, DB2, PL/SQL, WebSphere, SoapUI, JUnit, JIRA.