**Durga Prasad**

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##### Professional Expereince

* + Over 10 years of experience developing enterprise applications across domains like healthcare, finance, and telecommunications.
  + Proficient in analyzing, designing, and coding technical solutions using Java/J2EE technologies to meet business requirements.
  + Skilled in Agile software development, including Test-Driven Development (TDD) and Scrum methodologies.
  + Strong expertise in Angular (4/8/9) for creating reusable components and maintaining client-side interactivity in web applications.
  + Proficient in JavaScript and TypeScript, using frameworks such as Angular, React, GraphQL, and Bootstrap.
  + In-depth experience with React JS components, including forms, events, keys, routing, Redux, animations, and the Flux architecture.
  + Solid understanding of React's Virtual DOM for performance optimization.
  + Developed core modules in large, cross-platform applications using Node.js, Java, J2EE, Spring Boot, Struts, JSF, iBATIS, Hibernate, JSP, Servlets, EJB, JDBC, and web services (SOAP, REST).
  + Extensive experience with Java 8 features, including Lambda expressions, Streams, Pipelines, Filters, Optionals, and Executor Service.
  + Expertise in web service technologies: SOAP, REST, Microservices, WSDL, Apache Axis, CXF, and JAX-WS.
  + Deep understanding of Spring Framework modules: Spring MVC, IOC, AOP, JDBC, JTA, ORM, Spring Boot, and Spring Microservices.
  + Experience implementing Service-Oriented Architecture (SOA) and web services using SOAP and REST.
  + Built applications using EJB 3.2, Spring 4.x, Hibernate 4.x, REST, Rule Engines (Drools, ILOG), and jBPM tools.
  + Worked with cloud service providers such as Amazon AWS, Microsoft Azure, and Google Cloud Platform (GCP).
  + Expert in integrating enterprise applications using Spring with Kafka and Zookeeper.
  + Experience with Spring JDBC Templates, JMS Templates, and Spring Rest Templates.
  + Extensive experience in all phases of the Software Development Life Cycle (SDLC), including requirements analysis, design, coding, testing, and implementation in Agile environments.
  + Proficient with AWS Cloud services, including EC2, EBS, Lambda, Auto Scaling, and SQS. Hands-on experience using Pivotal Cloud Foundry (PCF) to deploy and manage Spring Boot applications.
  + Skilled in creating Docker images, managing containers, and integrating them with Angular, React, and Spring Boot applications.
  + Experience working with NoSQL databases like MongoDB, Cassandra, and Couchbase.
  + Strong foundation in Core Java concepts like collections, multithreading, and serialization.
  + Worked with UI frameworks such as Struts and cross-browser compatibility development.
  + Experience with Jenkins for build automation, including configuring check styles and test coverage.

##### Technical Skills

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| **Category** | **Technologies/Tools** |
| **Languages** | Core Java, J2EE, SQL, PL/SQL ,JavaScript, TypeScript |
| **Java/J2EE Technologies** | Servlets, JSP, JSF, EJB, JDBC, JMS, JAXB, JAX-WS, Design patterns, JPA |
| **Frameworks** | Struts 2.x/1.x, Spring 3.x/4.x, Hibernate 4.x/3.x, JSF 1.2/2.0, Ibatis, Spring Batch, Spring Boot, Maven, Bower, NPM |
| **Application/Web Servers** | IBM WebSphere 8.x/7.x/6.x/5.x, Apache Tomcat 5.x/6.x/7.x/8.x, JBOSS 4.x/3.x, Web Sockets |
| **Databases** | Oracle 10g/11g/12C, SQL Server 2012/2014/2016, MySQL 5.7, DB2 11.1, PostgreSQL |
| **Internet Technologies** | HTML 5, JavaScript 1.8, XML 2.0, CSS 3 and CSS 4, jQuery 2.11, Angular JS 2.0, Angular 8, BackBone.JS 1.3.1, Node JS 6.0, ReactJS |
| **Version Control** | SVN, GitHub |
| **IDE** | Eclipse, NetBeans 8.0.2, IntelliJ 2017.1, Spring Tool Suite (STS) 3.8.3, VS Code |
| **Operating Systems** | Windows Server ,Cent OS, Ubuntu ,Debian |
| **Testing and Logging Frameworks** | JUnit, Log4J, SoapUI, JMeter, Test NG, Easy Mock, Power Mock |
| **Methodologies** | Agile, Waterfall, TDD |
| **Build Tools** | Ant 1.10, Maven 3.3.9, Gradle 3.4.1 ,Vite |
| **XML & Web Services** | SOAP 1.2, REST 2.0, XML, XSD, JAXB, XML Bean |
| **Cloud Environments** | AWS, Azure, Cloud Foundry |

##### Work Experience

**Client: Bank of America, NY**

**Duration: Nov 2023 – Current**

**Role: Java Full-Stack Developer**

**Responsibilities:**

* Utilized Java 11 features, including the var keyword, Stream API enhancements, and the new HTTP Client API for efficient development.
* Maintained interface compatibility and optimized concurrency using Java 11 features like Optional, Stream, Set, default/static methods, and the Concurrency API.
* Migrated a monolithic application to a microservices architecture using Spring Boot, adhering to the 12-factor app methodology, and deployed services on Azure Cloud.
* Developed RESTful microservices with Spring Boot, using Spring AOP for cross-cutting concerns and Spring Actuator for monitoring and generating metrics.
* Managed API Gateway using Zuul and monitored microservices health via Spring Boot Actuator, with API documentation through Swagger UI.
* Integrated Spring Data JPA and Hibernate for database interaction, efficiently handling CRUD operations, pagination, and criteria queries.
* Configured, deployed, and supported cloud services using Microsoft Azure.
* Deployed and managed scalable, highly available, and fault-tolerant systems on Azure, and maintained continuous delivery pipelines.
* Created and managed virtual machines on Azure, deploying microservices using Tomcat and documenting APIs with Swagger.
* Managed multiple Azure subscriptions and virtual networks for production and non-production environments, with a focus on automation, integration, and cost optimization.
* Administered user accounts and permissions using Azure Active Directory, along with Azure SQL Database and DNS Zone services in Azure.
* Developed core services as reusable Maven jars to be included as dependencies in other microservices.
* Hands-on experience with REST-based web services using JAX-RS and Spring REST API for enabling JSON data exchange between frontend and backend.
* Utilized Apache Kafka for real-time data streaming and asynchronous messaging between services.
* Developed messaging systems with Kafka, integrating both Spring and non-Spring clients.
* Extensively used JMeter to create load tests, simulating various traffic conditions for key business scenarios.
* Configured and maintained Jenkins for continuous integration CI pipeline automation.
* Implemented responsive UI components using Material-UI with ReactJS and managed routing with React Router for SPA functionality.
* Managed state in React applications using Redux, optimizing component performance and data flow.
* Documented and rendered API contracts using Swagger, facilitating communication with QA and business analyst teams.
* Used Apache Camel to generate routes for microservices within the Merchant Portal.
* Automated the creation of new virtual networks using Azure Resource Manager (ARM) templates written in JSON.
* Created snapshots and virtual machine images of Azure VMs for cloning and backup purposes.
* Utilized Apache Camel's Azure components for uploading files to Azure Blob Storage

**Environment:**

Java 11/17, ReactJS, Spring Boot, Kafka, Azure SQL, PostgreSQL, REST Web Services, Git, Jira, IntelliJ, Docker, Jenkins ,Agile methodology, Splunk, Apache Camel, Azure

**Client: Baxter International, Bengaluru – India**

**Duration: March 2021 – Aug 2023**

**Role: Sr. Java Developer**

**Description:**

Baxter International Inc. is an American multinational healthcare company headquartered in Deerfield, Illinois. The company primarily focuses on products for the treatment of hemophilia, kidney disease, immune disorders, and other chronic and acute medical conditions.

**Responsibilities:**

• Collaborated with the Microservices team to develop and deliver Maven projects deployed on Tomcat.

• Used Apache Camel to generate routes for the Merchant Portal Microservices, enabling merchant employees to log in and allowing admins to manage users.

• Designed and developed user interaction screens using HTML5, CSS3, Bootstrap, JavaScript, React, and Node.js, improving the overall application performance through React’s component-based architecture.

• Utilized React for building functional and interactive user interfaces, ensuring both server-side and client-side form validations were performed efficiently.

• Gained a deep understanding of the existing application, business processes, and the security module, which led to the design of a custom security solution tailored to specific business needs.

• Developed RESTful web services using JAX-RS and Spring REST API, facilitating the exchange of JSON format data packets between the front-end and middle-tier controllers.

• Created core services as reusable Maven jars, which were leveraged by other microservices.

• Managed core service databases, allowing other microservices to interact with individual databases for efficient data access and storage.

• Leveraged Docker containers for local and cloud-based development, ensuring smooth deployment and portability.

• Deployed microservices on AWS by creating server instances, installing Tomcat, and integrating Swagger for API documentation.

• Utilized Apache Kafka for asynchronous messaging between microservices, implementing both Spring and non-Spring clients.

• Deployed and managed highly scalable, available, and fault-tolerant systems on AWS, while managing continuous delivery pipelines.

• Administered user accounts and roles using IAM and managed RDS and Route 53 services.

• Automated the creation of new VPCs using CloudFormation templates written in JSON, ensuring infrastructure consistency.

• Created Snapshots and Amazon Machine Images (AMIs) of EC2 instances for backup and cloning.

• Utilized Kubernetes for orchestrating the deployment, scaling, and management of Docker containers.

• Tracked project tasks and workflows using JIRA, managing epics, tasks, and subtasks to ensure smooth progress.

• Worked across multiple AWS accounts and VPCs for both production and non-production environments, focusing on automation and cost control.

• Developed and modified Stored Procedures, User-Defined Functions (UDFs), and Views, with proper error handling in place.

• Configured and maintained Jenkins to automate the CI/CD pipeline, enabling end-to-end automation of build and deployment processes.

• Gained hands-on experience using Jenkins for continuous integration and deployment, ensuring smooth software delivery.

Environment: Java 8/11, Spring Boot, REST API, Microservices, JSON, AWS, PCF, Node.js, React, Git, Jira, Git Bash, Mockito, MongoDB, Agile, Swagger, Apache Kafka, Log4j, Jenkins, Docker, Kubernetes, Wire Mock, Postman, SOAP UI, Spring Tool Suite (STS), Visual Studio Code.

**Client: Charles Schwab, Hyderabad - India**

**Duration: Jul 2017 – Mar 2021**

**Role: Java/J2EE Developer**

**Description:**

The Charles Schwab Corporation is a leading American multinational financial services company offering a wide range of banking, electronic trading platforms, and wealth management advisory services to both retail and institutional clients.

**Responsibilities:**

* Developed web applications using the Spring Framework within an MVC architecture.
* Implemented logging with Spring AOP to monitor application status and ensure smooth operations.
* Performed CRUD operations on the database using the Spring DAO module with ORM tools.
* Applied the Spring MVC framework and Inversion of Control (IOC) design pattern to separate application configuration from business logic, improving dependency management.
* Developed RESTful web services with Spring MVC for extracting client-related data from the database and tested them using SOAP UI.
* Applied Service-Oriented Architecture (SOA) principles by developing and consuming RESTful web services using JAX-RS and Jersey.
* Created PostgreSQL classes to interact with databases via Spring Framework manager classes.
* Consumed messages from JMS using Message-Driven Beans (MDB) and integrated messaging services with IBM MQ.
* Wrote thread-safe blocks to manage multi-threaded access, ensuring the validity of transactions.
* Implemented REST methods to handle client change requests effectively.
* Developed web service clients for login authentication, credit report generation, and applicant data retrieval using JAX-WS 2.0 and Apache Axis 2.
* Integrated external vendor applications via web services to send notifications.
* Created and tested SOAP-based web services using JAX-WS, employing SOAP UI for validation.
* Tested RESTful web services using the Postman plugin in Google Chrome.
* Used JUnit to create test cases for business logic and application code.
* Designed and developed project architecture from scratch, leveraging a Spring-Hibernate based design.
* Posted messages to external vendor systems using Apache CXF, exposing services to other client applications.
* Worked with JPA as the persistence layer, using EJB annotations and XML configurations to synchronize with the database.
* Utilized JiBX to convert Java objects to XML and vice versa, ensuring efficient data exchange.
* Deployed applications on JBoss Application Server, ensuring high performance in production environments.
* Developed UI components with HTML, JSF, jQuery, and JavaScript, incorporating AJAX for dynamic content updates.

**Environment:** HTML, JSF, jQuery, JavaScript, Apache CXF, JBoss, Spring 3.x, Hibernate 3, Spring MVC, SVN, SOA, RESTful, JAX-RS, Jersey, SOAP UI, JAX-WS, Apache Axis 2, JUnit, Web Services, JiBX, Postman, Agile.

**Client: HSBC, Bangalore, India**

**Duration: July 2013 – June 2017**

**Role: Java Developer**

**Description:**

The project involved developing a J2EE-based framework to support dynamic report creation across distributed databases. The framework enabled dynamic PDF report generation using the open-source iText library and allowed the introduction of new report formats and databases via XML configuration files.

**Responsibilities:**

* Utilized Rational Rose to create Use Case Diagrams, Object Diagrams, Class Diagrams, and Sequence Diagrams during the detailed design phase.
* Developed Servlets to route requests to the appropriate Enterprise JavaBean (EJB) components and render retrieved data to users.
* Built responsive and interactive web pages using Angular 1.0 and Node.js frameworks.
* Integrated AJAX for asynchronous server calls to fetch data and dynamically update the DOM.
* Collaborated closely with the UX team to translate design wireframes into functional code.
* Managed DOM manipulation, event handling, and event propagation while integrating with RESTful services.
* Ensured cross-browser compatibility and conducted thorough unit and integration testing.
* Created Session Beans to handle user requests and Entity Beans to manage customer information in the database.
* Implemented exception handling and validation classes using Struts validation rules.
* Developed multiple EJB components to deliver key business functionalities.
* Designed and developed the Email module by setting up JMS message queues, creating an email client, and using Message-Driven Beans (MDB) to consume messages and send emails.
* Consumed web services using Apache Axis.
* Deployed components using WebSphere Application Server.
* Implemented the persistence layer with Hibernate for database operations.
* Designed the front-end using HTML, CSS, JSP, Servlets, JSTL, AJAX, and Struts.
* Created CSS stylesheets to enhance UI components.
* Used JavaScript for web page validation and improving interactivity.
* Employed XML with SAX parsers for data transfers between applications.
* Monitored and debugged the application using Log4J, resolving issues based on logged errors.
* Wrote and executed stored procedures, functions, and triggers in Oracle for managing the database.

**Environment:** J2EE, Java SDK, XML, SAX, JSP, JMS, HTML, JavaScript, Struts, Hibernate, Servlets, Eclipse, Web Services, JUnit, Unix, AJAX, EJB, RMI, JNI, WebSphere Application Server, ANT, CVS, oracle 10g.