# Divya Ayyalsamy

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**Professional Summary**

12 years of IT industry experience encompassing various skill sets, roles, and industry verticals. Proficient in analyzing and translating business requirements to technical requirements and architecture. Strong database skills, object-oriented programming, and development knowledge. Executed software projects for the Telecom industry Excellent communication skills, interpersonal skills, self-motivated, quick learner, and team player.

# Technical Skills

Programming Languages Java/J2EE

Scripting Languages XML, JavaScript, HTML, XSLT and AJAX

Frameworks Struts 2, Hibernate, Spring boot, Spring Batch, JPA, Spring Cloud

Architecture Microservices

Tools TDP, AOTS, Jira and PRISM

RDBMS Oracle 11g, Mysql, Microsoft mssql, DB2. API Development and

Integration RESTful APIs, SOAP webservices

Server Management Nginx, Apache

Cloud Platforms AWS

Deployment Docker, Kubernetes, CI/CD pipelines

Version Controller Git, GitHub, GitLab

Build ANT, Maven

O/S Unix, Linux, Windows 10

Remote Access Putty, FileZilla, and Winscp

Servers Web Sphere 8.5, Tomcat 7, JBoss

Methodology Agile, Waterfall

IDE Eclipse Indigo, RAD, Spring Tool suite, Visual Studio

Processes IBM's QMS (Quality Management System)

Message Broker Kafka, IBM MQ, Rabbit MQ

# Professional Experience

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| **Java Backend Development Team Lead** |  |
| **Company: IBM US** |  **10/2023 – Present**  |
|  **Company: IBM India****Client: AT&T - Dallas, TX Project: Billing Gateway** | **01/2020 - 06/2023** |

Billing gateway alias BGW is an ATT application which deals with non-usage billing of the enterprise systems It will gather data from upstream systems and translate it and then pass it to the downstream systems for generating physical invoice.

# BGW is divided into three parts

* Hierarchy Creation
* Plan Subscription
* Order load data handling and forwarding to the downstream system.

# Roles and Responsibilities:

* Designed, developed, and maintained robust backend services and APIs using Spring Boot and Java 8.
* Implemented microservices-based systems using Spring Cloud to enhance the scalability, flexibility, and resilience of our applications.
* Designed and implemented RESTful APIs to enable seamless communication between frontend clients and backend services to ensure smooth data exchange and an exceptional user experience.
* Hands-on in DB2, MYSQL, Oracle, and Microsoft MSSQL databases.
* Familiarity with Linux command-line tools, file management, and basic system administration tasks. Manage Linux servers where Java applications are deployed, ensuring proper setup and maintenance to protect sensitive data and secure APIs effectively, we have implemented JSON Web Token (JWT) based authentication, Oauth, and authorization mechanisms.
* Developed and maintained servlets to handle specific tasks or endpoints within the application. This enhances the overall functionality and responsiveness of our solutions.
* Utilized Spring Batch, we have streamlined batch processing tasks, such as data imports, exports, and other bulk operations. to enhance the processing of large-scale data tasks.
* Had set up logging mechanisms, including SLF4J and Logback, to record application events and troubleshoot issues to ensure the smooth operation of our services and timely issue resolution.
* Worked on Jenkins and Kubernetes to automate the deployment of the application to various environments, such as staging and production.
* Defined Kubernetes manifests (YAML files) that describe how the application should be deployed, including pod configuration, services, and networking.
* Configured Jenkins to automatically build your Java application whenever changes are pushed to the repository. This includes compiling code, running unit tests, and generating build artifacts.
* Used Git to commit and manage your code changes, create branches for new features or bug fixes, and merge changes back into the main codebase (usually the master branch).
* Created Docker files to define how the application should be packaged as a Docker container, including all necessary dependencies.
* Had set up Jenkins jobs to execute automated tests (unit tests, integration tests, etc.) to ensure the quality of the application.
* Written JUnit test methods to validate specific functionalities, methods, or components of the code.
* Hands-on in deploying applications in WebSphere and Tomcat servers.
* Gained hands-on experience with key AWS services such as EC2, S3, and RDS, deploying and managing simple cloud-based applications.
* Worked on the migration of on-premises applications to AWS, improving system scalability and availability.
* Implemented CI/CD pipelines using AWS Code Pipeline, Code Build, and Code Deploy, resulting in reduced deployment times and increased release frequency.
* Developed soap based webservices and described wsdl files for request and response of the API.
* Developed Kafka producers and consumers using the Kafka client library to publish and consume messages.
* Developed Maven scripts and developed builds using Maven and continuous integration servers like Jenkins.
* Developed SQL and PL/SQL scripts.

Environment: Java 8, J2EE, Servlets, JMS, Hibernate, Linux, SQL, Spring Boot, Spring Cloud, Spring Batch, JPA, REST, Docker, HTML5, Bootstrap, JavaScript, Node js, Log4J, PL/SQL, JUnit, JIRA, CI/CD, Oracle DB, Mongo DB, GIT, Jenkins, Kubernetes, AWS,Kafka and Splunk.

# Senior Java Engineer

**Company: IBM India 10/2016 - 12/2019**

# Client: AT&T - Dallas, TX Project Name: CSSNG

CSSNG is an AT&T designed web application in line with NIS's integrated enterprise vision and has incorporated all the key functionality of NTD and CSS applications and is available as a unified application. CSSNG is an AT&T database of record for cell site information for the mobility network across the USA. CSSNG provision users to create and modify information about Location, Radio Base Station, Cell Site, Sector and Market Information based on the roles and permissions assigned to the users, maintain the updates and communicate them over to the required interfacing applications.

Various applications use CSS for retrieving information on:

* Site details Site Assets Ticketing
* Performance
* Compliance with Environmental regulations Billing and revenue assurance
* Location-based services such as E911 Network coverage

# Roles and Responsibilities:

* Developed and maintained web applications using the Struts 2.0 framework, delivering user- friendly interfaces and enhancing user experience.
* Utilized Java Servlets and JSP to create dynamic web pages, seamlessly integrating front-end and back-end functionality.
* Designed and implemented complex database models using Hibernate ORM, improving data retrieval and manipulation efficiency.
* Leveraged the Java Persistence API (JPA) to manage object-relational mapping and enhance database interaction in accordance with industry best practices.
* Designed, developed, and maintained SOAP-based web services to enable seamless communication between legacy systems, resulting in improved data sharing and process efficiency.
* Developed and maintained WSDL contracts to define web service interfaces, enabling seamless integration between client and server applications.
* Designed and validated complex XSD schemas for XML-based data exchange, ensuring data consistency and adherence to industry standards.
* Implemented security features using WS-Security standards to ensure data integrity and confidentiality in SOAP transactions.
* Proficient in creating and maintaining build scripts using Apache Ant to automate the compilation, testing, and deployment of Java applications.
* Practiced Agile Methodology and involved in Sprint planning schedule.

Environment: Java 8, J2EE, Servlets, Struts, Hibernate, Linux, SQL, Spring Boot, Spring JPA, REST, UML, HTML5, Bootstrap, JavaScript, Log4J, Oracle, PL/SQL, JUnit, JIRA, CI/CD, Oracle DB, GIT, Jenkins, SOAP, Kubernetes, Docker, Maven, Apache Ant.

**Java Software Engineer**

# Company: Tata Consultancy Services 10/2015 - 10/2016 Project: Tata sky

OSS and BSS have been and developed for Tata Sky by TCS. This web application is Network Inventory Management system is for location management of physical and logical entries and it supports the process flow.

# Roles and Responsibilities:

* Developed and maintained Java/J2EE applications following best practices, coding standards, and design patterns.
* Implemented robust and scalable backend solutions using Spring Framework, including Spring Boot, Spring MVC, and Spring Data.
* Wrote Spring Configuration XML file that contains bean declarations and other dependent object declarations and performed integration of Spring with Hibernate.
* Used GIT for version control management between various integration and development streams.
* Used Jira to track bugs, prioritize, and discuss the team's work in full context.
* Designed and implemented data models using JSON for seamless integration between front- end and back-end systems.
* Designed and optimized database schemas in Postgres SQL, ensuring efficient data storage and retrieval for high-performance applications.
* Developed unit tests using JUnit and Mockito.
* Deployed, configured, and maintained Java applications on the JBoss Application Server, ensuring optimal performance, reliability, and scalability.

Environment: Java 8, JSP, Servlets, JMS, Hibernate, Linux, SQL, Spring Boot, Spring Batch, Spring JPA, REST, UML, HTML5, CSS, Bootstrap, JavaScript, Log4J, Postgres SQL, JUnit, JIRA, CI/CD, Oracle DB, GIT, Jenkins, Maven, Apache Ant, JBoss, WebSphere and Tomcat.

# Java Developer

**Company: IBM India 06/2012 - 09/2015**

# AT&T - Dallas, TX Project: APEx

The APEx application provides a standard repository and authoring interface for technical documentation required by Network Operations and the AT&T affiliates. This includes company authored and vendor supplied documentation. The APEx Distribution website provides read access to documentation used by Network technicians and other personnel. The documentation found on the website can be logically divided into two types: (1) Vendor-supplied documentation for telecom equipment and (2) internal Methods & Procedures (M&P) created by AT&T employees.

# Project Name: APEx Authoring

The APEx Authoring application itself is on a separate website and is only used for creating the M&P documentation on the APEx Distribution website. APEx Authoring has 800 to 1000 registered author where they will author the documents and while performing publish task in authoring documents will move from Authoring to Distribution.

# Roles and Responsibilities:

* Involved in various phases of the Software Development Life Cycle (SDLC) such as requirements gathering, modelling, analysis, design, development, and testing.
* Developed interactive and responsive user interfaces using HTML, CSS, and JavaScript. Developed various helper classes needed following Core Java multi-threaded programming and Collection classes.
* Used SVN as a version control tool and JIRA for tracking issues.
* Developed XML transformation scripts using XSLT to map and convert legacy data into the desired XML schema.
* Deployed application on Tomcat server.
* Designed and implemented SOAP-based web services to facilitate real-time data exchange between internal systems and external partners, enhancing business process efficiency.
* Developed WSDL documents and XML schemas for defining service interfaces and data structures, ensuring seamless integration with client applications.

Environment: Core Java, Servlets, JSP, Hibernate, Linux, SQL, HTML5, XSLT, XML, Bootstrap, JavaScript, Log4J, Oracle, PL/SQL, JUnit, JIRA, CSS, Oracle DB, SVN, SOAP, Maven, Apache Ant.

# Education and Training

Anna University - Chennai | Bachelor's -- Information Technology, 04/2012

# Accomplishments

Eminence and Excellence Award from IBM for the financial year 2019, and 2022. Manager choice award from IBM for the financial year 2021 and 2022.