BRIAN SHEN

Java Full Stack Developer

PROFESSIONAL SUMMARY

* Result-driven professional with around 9 years of IT experience as a Java Full-Stack Developer in various domains including E-commerce, Pharmaceutical, and Bank Industries.
* Exposure to Involvement in all phases of the Software Development Life Cycle (SDLC) including planning, analysis, design, implementation, testing, Documentation, Production Support, and maintenance of multi-tier distributed, secure enterprise applications using Java/J2EE technologies.
* Experience in Spring Modules: Spring Data JPA, Spring MVC, Spring JDBC, Spring Boot, Spring IOC, Spring AOP, Spring Transaction, Spring Security.
* Expert in Developing enterprise-grade applications using Java 8/Java EE (and higher).
* Expertise in developing MVC architecture for web-based applications using Spring MVC framework and Servlets, JSP, JDBC, and Web Services (SOAP & REST).
* Strong Experience in Core Java, Multi-threading, Collections, Spring 3. x, Struts 2. x.
* Expertise in JAVA/J2EE Design Patterns like Factory, Singleton, DAO, Transfer Objects, Business Delegate, Proxy, and MVC (Model-View-Controller) in the development of Multi-Tier Enterprise Applications.
* Proficient in different data sources ranging from flat files SQL Server, Apache spark, Oracle 11g/ PL/SQL Packages, Procedures, Functions, Triggers, and other objects, and Apache Kafka
* Proficient in Developing Microservices using Spring Boot and deploying Microservices into the AWS cloud using Jenkins.
* Expertise in Web Designing tools like JavaScript, JQuery, Ajax, HTML, XML, and CSS.
* Experienced in Middleware persistence frameworks like Hibernate/JPA Entities for mapping Java classes using Hibernate Query Language (HQL).
* Working experience in JMS enterprise messaging systems (EMS) with ActiveMQ, IBM MQ, and Apache Camel Integration Framework.
* Proficient in Java Multi-Threading, Thread lifecycle methods, and multiple request handling using synchronization.
* Expert in working on Kubernetes helps manage multiple containers across different systems, allowing you to scale them with ease.
* Experience in Big data ecosystem and Hadoop architecture.
* Experience in Python and Spark developed ETL integration patterns.
* Strong experience with Java features like Lambda expressions and Stream API for Bulk data operations and parallel operations on Collections which would increase the performance of the Application.
* Proficient in Creating a reusable component library in Angular 4, streamlining development, and ensuring visual consistency across multiple projects.
* Proficient in developing and maintaining scalable server-side applications using Node.js, leveraging its asynchronous and event-driven architecture for high-performance solutions.
* Skilled in managing Amazon Web Services like EC2, S3 bucket, ELB, Auto-Scaling, SNS, SQS, AMI, IAM, and Virtual Private Cloud (VPC) through AWS Console and API Integration.
* Proficient in Involving on the build and deployment of the applications in development, and system acceptance environments using Jenkins.
* Experience in creating Docker images, Containers, push/pull, and integrating with Spring Boot for running applications.
* Experience in using Python, Flask framework, and HTML/CSS to build web applications.
* Extensive knowledge in like JavaScript, JQuery, Ajax, HTML, XML, and CSS.
* Proficient in RDBMS database systems like Oracle, SQL Server, and My SQL.
* Excellent verbal, documentation, and organizational skills.

EDUCATION

* MS in Computer Science

TECHNICAL SKILLS

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| Languages | C, C++, Java 8, J2EE, SQL, PL/SQL, Python, Kotlin |
| J2EE Technologies | Servlets, JDBC, JSP, JMS, Java Security, Collections |
| Web Technologies | HTML5, JavaScript, Typescript, JQuery, ES6, CSS3, Bootstrap, JSF, Angular 4, JSON, AJAX, NodeJS, XML, DOM, SAX, XSD, XSLT, SOAP, REST, Kubernetes |
| Tools & Framework | Spring (MVC, IOC, AOP, Boot, Cloud), JPA, Hibernate, Struts |
| Web services | SOAP, UDDI, WSDL, JAX-RPC, Restful, JAX-RS, JAX-WS, JAX-B, Axis2 |
| Database | Oracle, MySQL, SQL, PostgreSQL |
| Cloud Environments | AWS, EC2, S3, Personalize, IAM, CloudWatch, API Gateway, Lambda, Isengard |
| Containerization | Docker, Kubernetes |
| Testing/Build Tool | JUnit, Jasmine, Karma, Maven, Postman, Mockito |
| Version control | CVS, GitHub, Git |
| OS & Environment | Windows Family, Linux, macOS |

PROFESSIONAL EXPERIENCE

EBay, San Jose, CA Sep 2023 – Current

Java Full Stack Developer

Responsibilities:

EBay Order Management Project

* Under EBay Order Management Project, my team is responsible for the development of Order Management and Payment.
* Having daily Standup Meetings and having 2 weeks of Sprint Plan Meetings on Wednesday.
* Developed Cosmos APIs according to the Order Management Project plan using Java8, and Spring Boot for Microservices in IntelliJ.
* Used Jenkins pipelines to drive all microservices builds out to the Docker registry and then deployed to Kubernetes.
* Developed the Order Management action class as well as the implementation class. Also wrote automation and Unit Tests using Junit and Mockito.
* Used angular-CLI tool to configure the angular project and build it for development of Angular application using Angular 4.
* Wrote Unit Test to test the exceptions like Resource Not Found Exception, and Resource Busy Exception and updated the PR (code review) with team members.
* Container management using Docker by writing Docker files setting up the automated build on the Docker hub and installing and configuring Kubernetes.
* Integrated Spring Security for user authentication and authorization, ensuring data security.
* Mentored junior developers in Kotlin, Spring Boot, and database design best practices.
* Used GitHub as version control.

Environment: Java, Kotlin, JQuery, Angular 4, JSON, JavaScript, HTML5, CSS3. XML, Maven, JUnit, Oracle, Kubernetes

Amazon/Persistent, Bellevue, WA Sep 2022 – Aug 2023

Java Full Stack Developer

Responsibilities:

AWS Hil-Axis Project under AWS SageMaker

* Under the AWS Hil-Axis Project, my team is responsible for providing and maintaining geospatial machine learning (ML) capabilities like build, training, and deploying ML models faster using geospatial data.
* Having daily Standup Meetings and having 2 weeks of Sprint Plan Meetings on Tuesdays. Deliver the OnePager task tracker to the Project Manager every Friday.
* Developed Internal APIs like STOPEOJ/DeleteEOJ API in AwsHilAxisServiceLambda using Python in IntelliJ.
* Developed and maintained Axis Integration Test for testing Axis AWS lambda Service including all invoke functions in IntelliJ.
* Test on ListRasterDataCollections in AWS Lambda, Check ListEarthObservationAPi error logs on CloudWatch.
* Integration test with the Internal APIs like STOPEOJ/DeleteEOJ. Run the entire test suit and single test using.
* Build packages like AwsHilAxisDockerProcesorsCDK, and AwsHilAxisDockerProcesorsImageBuild using Brazil-build tools
* Bootstrap environment in cloud desktop and deploy success for packages like AwsHilAxisServiceCDK and test using AWS development account.
* Raised CR for Axis APIs as well as integration test for ListEOJ/StopEOJ internal and external APIs. Code review with Senior SDE.
* Add Retry in APIs like UpdateVEJExeption/ UpdateVEJSuccess to fix TransactionConflict exception in VEJ lambdas when doing DynamoDB transactions using Boto3, AWS lambda Powertools, and Python.
* Creating reusable and modular React components for the AWS Hil-Axis Project.
* Integrated with AWS DynamoDB, a NoSQL database, to store and retrieve data for various application features.
* Utilized the AWS SDK to interact with DynamoDB, performing CRUD operations, handling queries, and managing indexes.
* Worked on the creation of components for routing and forms using Angular-cli and Angular 4.0.
* Utilized serverless technologies like AWS Lambda and Amazon API Gateway for handling API requests and invoking Node.js functions for data processing.
* Added functions like AddDatasetSamples API using Unittest, and Pytest on Unit Tests.
* Designed and optimized database schemas in PostgreSQL to ensure data consistency, performance, and scalability.
* Using different accounts in Isengard and adding roles in IAM for PersonalizeCrossAccountAccess Test and attaching different Policies.
* Create GT+ batch data Model and UpdateDataset API for GT+ Integration implementation using Boto3 and Python.
* Implemented asynchronous messaging using Kafka for real-time transaction processing.
* Used AWS CloudWatch to check the log events and deal with the Exceptions.
* Used Git as version control for different packages on AWS.

Environment: Java 8, J2EE, AWS, Spring Framework, Spring MVC, Angular, Hibernate, Python, RESTful API, Web Services, PL/SQL, Maven, JIRA

Verizon, Irving, TX Feb 2022 – Aug 2022

Java Full Stack Developer

Responsibilities:

* Involved in all phases of the SDLC using Agile/SCRUM development methodology to deliver regular updates to the business team and Project Managers. Having daily Standup Meetings and contributed to 2 weeks of Sprints.
* Worked as L3 Support involved in Analysis, and preparing technical design specification documents as per the Requirements, Architecture, and Development built in Java/J2EE.
* Developed and maintained RESTful APIs and microservices using Kotlin and Java Spring Boot for a high-traffic e-commerce platform.
* Developed the Verizon Chatbot Flow using Spring Framework, which is based on the MVC design pattern. Used Spring Dependency Injection, annotations, and Spring MVC components to implement the business layer and navigation part of the application.
* Involved in implementing the complete Application in the in-build MVC Architecture with angular 4 and typescript.
* Utilized PostgreSQL to manage financial data, implement database migrations, and optimize queries for reporting.
* Developed the application as a Spring Boot App to get a range of non-functional features.
* Developed Restful API Web Services and Analysis JSON for API requests using POSTMAN.
* Created and configured AEM templates to check the Back-end Value. Designed and developed XML processing components for the dynamic display of the menu on the application.
* Configured a new Flow(5Ghome) on Google Dialog Flow using a Micro-Service architecture with Spring Boot-based services.
* Tested the webhook in the Google Dialog Flow Fulfilment panel and enabled the webhook for each intent where we want to receive a response and save changes.
* Set up the different Routes and Entities for different parameters. To more accurately identify the type of input by the user and give an appropriate response.
* Handled Java multi-threading part in the back-end component, one thread will be running for each user, which serves that user.
* Used Annotations for Dependency Injection Spring MVC for REST APIs and Spring Boot for Microservices.
* Developed API for using AWS Lambda to manage the servers and run the code in AWS.
* Used AWS CloudWatch in alerting, maintaining, and monitoring production and corporate servers/storage.
* Collaborated with data scientists to integrate machine learning models into Spark applications, enabling real-time predictions and recommendations.
* Implemented performance optimizations, including partitioning, caching, and broadcast joins using Scala/Spark
* Configured and managed Kafka topics and partitions to ensure optimal performance and scalability.
* Converted the existing DB2 schema to a compatible format for Amazon RDS Aurora.
* Exported data from your existing DB2 database and import it into the AWS Database Migration Service (DMS) to facilitate this process.
* Utilized AWS CloudWatch to monitor the performance of your Lambda functions and the serverless database from the DB2 database. Set up alerts for any anomalies or performance issues
* Guiding best practices, data modeling, and Cassandra-specific optimization techniques.
* Experience in managing and reviewing Hadoop log files.
* Used Scala sbt to develop Scala Spark Projects and executed them using Spark-submit.
* Worked on Hadoop Cluster architecture and monitoring the cluster.
* Set up and benchmarked Hadoop/ HBase clusters for internal use.
* Collaborated with cross-functional teams to define policy requirements and integrated OPA with the CI/CD pipeline for automated policy updates.
* Worked with teammates to address vulnerabilities and ensure OPA was securely configured for production environments.
* Conducted unit testing and participated in system testing to ensure the quality and reliability of Kafka-based solutions.
* Stayed up-to-date with the latest advancements in Kafka and applied new features and functionalities to improve system performance and reliability.
* Worked on Spring Security to secure the application by security interceptors and worked with external entitlement services to authenticate Users to access the data.
* Implemented data persistence and retrieval of data like service plans, and information on current customers by using Hibernate as an ORM tool.
* Used GitLab as version control and JIRA for bug/defect/ticket tracking.

Environment: Java, J2EE, AWS, Angular, Spring Framework, Spring MVC, Hibernate, RESTful API, Web Services, HTML, AJAX, JavaScript, XML, Python, PySpark, ETL, Hive, PL/SQL, Maven, Jenkins, Karma, Jasmine, JIRA

MotionMobs, Birmingham, AL Oct 2020 – Jan 2022

Java Full Stack Developer

Responsibilities:

* Worked as L3 Support with Business Analysts and Product teams in understanding technical requirements.
* Used Unified Modelling Language (UML).
* Created specifications which include Use Cases, Class Diagrams, Sequence Diagrams, and Activity Diagrams.
* Implemented Spark using Scala and Spark SQL for faster testing and processing of data.
* Developed dynamic web applications using Angular 4, leveraging its powerful features for building interactive user interfaces; Developed and maintained web applications using Angular 4, HTML5, CSS3, and JavaScript.
* Utilized Angular 4 forms and validations to ensure data integrity and a smooth user experience during account creation and updates.
* Worked with Angular components, templates, and data binding to create modular and reusable UI elements.
* Developed various objects using Java HTML5 and DHTML to maintain a well-structured GUI and to interact with Controllers to get data from MySQL database.
* Used DAO Pattern and J2EE framework to facilitate the integration and deployment of DAO, Servlets, JSP, and XML.
* Utilized Kotlin's null safety features to reduce runtime errors and enhance the reliability of web applications.
* Configured and maintained Kafka clusters, optimized Kafka brokers, and implemented security measures, ensuring data integrity and availability.
* Installed and configured Hive and written Hive UDFs.
* Created Hive tables and worked on them using Hive QL with HBase.
* Developed using Python and Spark and developed ETL integration patterns.
* Worked on optimizing Hive SQL quarries and Spark Jobs for fast data processing
* Analysed the SQL scripts and designed them by using Python and Spark SQL for good performance.
* Developed several controller classes as required for the design such as Abstract Wizard form controller, Simple Form controller, Multi-Action controller, etc. in Spring MVC.
* Used Spring Boot which is radically faster in building cloud Micro Services and developing Spring-based applications with very little configuration.
* Integrated OpenShift monitoring and logging tools, allowing for real-time visibility into application performance and efficient troubleshooting.
* Experienced in implementing Spark using Scala queries on different formats.
* Applied J2EE Design Patterns such as Factory, Singleton, and Business delegate, DAO, Front Controller Pattern, and MVC and actively used OOP concepts.
* Designed and implemented microservices architecture for a complex financial application using ASP.NET Core, resulting in improved modularity and maintainability.
* Used Kafka messages and Spring Kafka API calls to process the messages smoothly on Kafka.
* Implemented Kafka producer and consumer applications on the Kafka cluster.
* Managed and maintained a diverse network of Linux servers to support various applications and services.
* Configured and optimized Apache web servers to deliver high-performance web applications.
* Implemented SSL/TLS encryption for secure communication between clients and servers.
* Monitored server performance, troubleshooted issues, and performed regular system updates.
* Collaborated with the security team to ensure server security and compliance with industry standards.
* Documented system configurations, procedures, and best practices.
* Trained junior team members on server configuration and maintenance.
* Developed and modified Action Classes to accept and process requests from clients.
* Developed DAO Layer using JDBC to connect the J2EE server with the MySQL database.
* Deployed and tested the application on the Apache Tomcat webserver.
* Developed an online payment gateway using ASP.NET Core and deployed it on OpenShift, ensuring secure and reliable payment processing.

Environment: Java, J2EE, Spring Framework, HTML, AJAX, Python, PySpark, ETL, Hive, JavaScript, XML, Jasmine, JIRA

Craft Designs, Inc., Huntsville, AL Apr 2019 – Sep 2020

Java Full Stack Developer

Responsibilities:

* Involved in daily Scrum meetings, Sprint planning, and estimation of the tasks for the User Stories, participated in retrospective and presented Demo at end of the Sprint.
* Designed Class Diagrams, Sequence Diagrams, and event Diagrams as part of Documentation.
* Wrote the Controller in Spring MVC which delegates the request from frontend to the delegator layer and makes calls with backend systems
* Used Spring Validation framework to implement the server-side validations and used AJAX to get the data from the server asynchronously by using JSON objects.
* Developed backend logic using Core Java including Collections and multi-threading.
* Extensively used Core Java collections, Generics, Exception handling, and Design patterns for functionality, such as portfolio summary and user information; developed Services, Business Delegate, POJO, Controller, and Dao.
* Wrote Hibernate Criteria queries for data retrievals and performed the ORM mappings to map Java entities to database tables.
* Administered and maintained Linux servers for multiple departments, including development and production environments.
* Installed, configured, and optimized Apache web servers to support various web applications.
* Implemented SSL certificates and ensured secure data transmission for e-commerce websites.
* Conducted routine system backups and disaster recovery planning.
* Collaborated with cross-functional teams to troubleshoot and resolve server-related issues.
* Assisted in the evaluation and implementation of new technologies to improve system performance.
* Implemented RESTFUL web services using Spring Boot and consumed using Spring REST services. Published Rest services for performing CRUD operations from the database.
* Used Spring boot to collect the data from users and packaged the data as JSON distributed to other applications
* Used JAX-RS to create RESTful API where the request & response are in JSON format.
* Used various AWS services like EC2, VPC, Auto Scaling, RDS, and ELB, to create highly available and scalable infrastructure in the AWS environment.
* Designed the ER diagrams and structured data in the database while enforcing normalization for a consistent output.
* Developed data processing microservices that utilized OpenShift's auto-scaling capabilities
* Using Angular 4 to deliver interactive and engaging content.
* Implemented client-side routing using Angular Router, enabling seamless navigation and improving user engagement.
* Created S3 buckets and managed policies for S3 buckets and Utilized S3 bucket and Glacier for storage and backup on AWS.
* Developed and executed test strategy and coordinated QA testing in Agile Environment.

Environment: Java, AWS, Struts, Spring Framework, Spring MVC, Hibernate, RESTful API, HTML, CSS AJAX, JavaScript, XML, Angular.JS, PL/SQL, Maven, Jenkins, Karma, Jasmine, JIRA

Airship, Birmingham, AL Jan 2018 - Mar 2019

Java Full Stack Developer

Responsibilities:

* Participated in SDLC requirements gathering, analysis, design, development, and testing of applications developed using Agile methodology.
* Used Core Java Concepts like Collections, Generics, Exception Handling, I/O, and Concurrency to develop business logic.
* Implemented Spring MVC framework for developing J2EE-based web applications and used various J2EE design patterns like DTO, DAO, and Singleton.
* Used DAO pattern to fetch data from database using Hibernate to carry out various database-specific operations and avoided redundant database access statements and thus achieved decoupling and flexibility.
* Used spring framework configuration files to manage objects and to achieve dependency injection.
* Contributed to the development of a custom Linux kernel module, optimizing system performance and resolving critical issues.
* Debugged low-level software and implemented efficient algorithms to improve system resource utilization.
* Collaborated with the QA team to identify and fix system-level bugs, resulting in a 15% reduction in system crashes.
* Implemented Quartz scheduler to execute batch programming using Spring Batch.
* Created tables, triggers, stored procedures, SQL queries, joins, integrity constraints, and views for multiple databases in SQL Server.
* Implemented logging using Log4j and developed robust exception handling and error reporting mechanisms.
* Used JIRA in the application to track bugs, issues, and project management functions
* Used GitHub to maintain current and historical versions of files such as source code, web pages, and documentation.
* Use Eclipse and Tomcat web servers for developing & deploying the applications.

Environment: Java, J2EE, jQuery, HTML, CSS, AngularJS, JavaScript, Node.JS, RESTful API, Spring MVC framework Node.JS, SOAP UI, SQL Server, JIRA

Puli Software Engineering Development Ltd, Nanjing, China Aug 2016 – Nov 2017

Java Developer

Responsibilities:

* Designed a user interface for users to interact with the system using jQuery, JSON, JavaScript, HTML5, and CSS3.
* Used spring modules like Core, Scheduler, and JDBC template.
* Involved in coding, maintaining, and administering JSP components to be deployed on a spring boot and Webserver.
* Worked on Spring IOC, Spring MVC, and Spring integration with Hibernate.
* Involved in writing the presentation layer in Java Server Page (JSP). Strong Understanding of the software development cycle, especially Agile/Scrum.
* Involved in the development of the presentation layer and GUI framework in JSP. Client-side validations were done using JavaScript.
* Developed REST services to talk with adapter classes and exposed them to the front end.
* Developed Microservices using RESTful services to provide all the CRUD capabilities.
* Developed test cases using the JUnit testing framework.
* Used Eclipse as a JAVA IDE tool for creating various J2EE artifacts like Servlets, JSP, and XML.
* Built and managed other project modules using Maven.
* Dependency Injection was used across all the layers of the application
* Developed database Schema & populated data using SQL statements, PL/SQL Functions, Stored Procedures, Triggers, and Bulk uploads.
* Wrote multiple Shell and Perl scripts for the automation of the unit testing.

Environment: Java, jQuery, JSON, JavaScript, HTML5, CSS3. XML, Maven, JUnit

Hangzhou Handsome Electronics Co Ltd, Hangzhou, China Feb 2015 - July 2016

Java Developer

Responsibilities:

* Experience working closely with Business Analysts and Product teams in understanding technical requirements.
* Created specifications which include Use Cases, Class Diagrams, Sequence Diagrams, and Activity Diagrams.
* Developed various objects using Java HTML5 and DHTML to maintain a well-structured GUI and to interact with Controllers to get data from MySQL database
* Used the DAO Pattern and J2EE framework to facilitate the integration and deployment of, DAO, Servlets, JSP, and XML.
* Developed several controller classes as required for the design such as Abstract Wizard form controller, Simple Form controller, Multi-Action controller, etc. in Spring MVC.
* Used Spring Boot which is radically faster in building cloud Micro Services and developing Spring-based applications with very little configuration.
* Applied J2EE Design Patterns such as Factory, Singleton, and Business delegate, DAO, Front Controller Pattern, and MVC and actively used OOP concepts.
* Developed and modified Action Classes to accept and process requests from clients.
* Developed DAO Layer using JDBC to connect the J2EE server with the MySQL database.
* Developed database objects like tables, views, stored procedures, and indexes.
* Deployed and tested the application on the Apache Tomcat webserver.
* Involved in testing and fixing bugs.
* Created configuration pages for the users to manage/customize/create storage mappings.

Environment: Java, Core Java, J2EE, Spring Framework, HTML, AJAX, JavaScript, XML, Jasmine, JIRA