SAURAV MAJUMDAR

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JAVA DEVELOPER

SUMMARY

- Over 7 years of professional experience including 3 years of hands-on developing software applications through all phases of Software Development Life Cycle in the creation of comprehensive software solutions using Java
- Implementing the Object-Oriented Programming concepts based on client and project requirements.
- Proven abilities in using modern methodologies such as Agile and Waterfall with Web Technologies, Design Patterns and Web Services for custom-tailored projects.
- Technological expertise includes modern languages and technologies including Java, Tomcat, MS SQL, AngularJS, Express, JavaScript, Web Services and Git.
- Implemented application system using Spring MVC design, authentication using JWT and Oauth2, with SMTP for auto notifications and messages across all phases of CI/CD pipeline.
- Collaborated with cross-functional teams in-house and external vendors and customers to understand the application requirements and proposed and delivered changes accordingly.
- GitHub: https://github.com/smajumdar13

Career Note: Currently on H-1B Visa Status.

CORE COMPETENCIES & TECHNICAL SKILLS

Software Development • Object-Oriented Programming • Front-End Interface • Web Services
Back-End Components • Data Structures & Collections

Languages: Java, Node.js
Web: HTML5, CSS3, JavaScript, JPA, Servlets, jQuery, AJAX, XML, AngularJS, Bootstrap
Web Services: RESTful Web Services, SOAP AWS
Web/App Servers: Apache Tomcat, XAMPP
Frameworks: Spring (Core, Boot), Hibernate, Express
SDLC: Waterfall, Agile, Iterative Development Methodologies
Databases: MySQL, MS SQL Server, PostgreSQL, MongoDB
Tools: NetBeans, Eclipse, IntelliJ, VS Code, Sublime Text, Git

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PROFESSIONAL EXPERIENCE

Software Engineer: John Deere/Beacon Hill Staffing Group, Des Moines, Iowa (Remote, Dec 2021 – May 2024)
Worked as a Software Engineer for client John Deere (ISG Digital Engineering), Urbandale, Iowa for Products Team and Equipment 2.0 Team. Main roles and responsibilities included developing reference plugins, components and microservices for migrating the current monolithic web application, database mapping, normalization of database and POJOs, writing structured queries to handle incoming data, adding new functions and security measures to the microservices and making the data readily accessible to the end user. Using Git for Versioning of the components and plugins, and docker to implement the microservices to AWS, observing deployment through all phases of the CI/CD pipeline. Using Maven for build automation and testing in Drone using Junit5. Use of Slf4J for logging.

Responsibilities:
Equipment 2.0 Team (Dec. 2023 – May 2024):

- Initiated work on latest John Deere project on integration with Starlink Satellite systems (SpaceX); designed Oauth2 Authentication and REST API endpoint.
- Implemented BDD architecture using Junit5 and Mockito in Equipment 2.0 team across multiple repositories.

- Collaborated in Memcache implementation in Equipment 2.0.
- Collaborated in implementing MapStruct library to a certain repository under Equipment 2.0 to generate and configure mappers for DTO objects and remove boilerplate codes.
- Refactored and simplified DomainBuilder factory codes for object generation for testing purposes.
- Implemented Cucumber testing in a repository for simplifying and accelerating unit tests.
- Implemented TTD architecture using Junit5 to develop components, plugins and microservices to assist in migrating the functionalities of current monolithic application to a more distributed application system.
- Developed microservices and plugins using Java 11, Spark, Collection, Streams, Generics and Restful APIs.

Products Team (Dec. 2021 – Dec. 2023):

- Assisted in the development and completion of Products Microservice across all phases of CI/CD pipeline.
- Assisted in the design and development of ingestion plugin to retrieve data from third party data supplier into John Deere's global database
- Implemented and enhancing modules and POJOs using Collection, Streams, Multi-Threading and Object-Oriented Designs and normalizing the POJOs for effective retrieval of essential data.
- Used Dependency Injection and annotations to reduce boilerplate codes and attain loose coupling
- Scripting SQL queries to access, insert and update data from John Deere's global database
- Implemented TDD in developing Unit Testing and Integration Testing using JUnit, Mockito and factories
- Troubleshooting and fixing defects and errors reported by internal and external clients, Kibana logs, Datadog logs as well as from error logs retrieved from SQS queues.
- Updated Products Server data in Enterprise Data Lake (EDL)
- Containerization and deployment of microservices
- Updated documentation based on newly added or modified features.
- Demoed newly added features and functionalities to Products application and handled Q&A in JD-ISG Operations Center Demos across multiple divisions.
- Attended various meetings covering a wide range of topics including and not limited to clean coding, security, AWS, data integrity, delivery and more.
- Collaborated with multiple teams over the duration of work; Enterprise Data Lake Team, Data Science Team, Frontend Team, Work Planner, Field Analyzer, third party (CDMS) on data import from their servers as reference for use.

Technologies and Environment: Java 11, SparkJava, Hibernate, Spring Boot RESTful APIs, Git, JDBC, DOM, Intellij, Drone, Maven, Spring, Hibernate, Design Patterns, Cucumber, Fitnesse, Mapstruct, Instancio, Junit5, Slf4J, MySQL, AWS, Artifactory, Generics, Annotations, Docker, Rally, Datadog, Kibana, Grafana, Kafka, Liquibase, Guice, Checkstyle, EDL, Postman.

Software Developer: Prime Computers (P) Ltd., Kathmandu, Nepal (Mar 2014 - Feb 2018)
Designed and developed software solutions based on client requirements. Redesigned legacy console software with updated technologies and user interface. Implemented web services including SOAP and REST. Used Maven for build automation ensuring proper settings and avoiding or solving any errors. Coded to industry standards and conducted unit testing and integration testing. Used Log4J for logging and tracing messages.

Responsibilities and Achievements:

- Implemented modules using Core Java APIs, Collection, Streams, Multi-Threading and Object-Oriented Designs
- Used Spring Dependency Injection, annotations and Spring MVC components to implement business layer and navigation part of application in order to achieve loose coupling
- Developed dynamic and responsive Web pages from scratch using HTML5, CSS3 and JavaScript
- Developed components and microservices with Spring MVC, Spring Boot, Spring Framework and Hibernate with less configuration and eliminating boilerplate codes
- Implemented front-end interface using HTML5, CSS3, JavaScript, Angular and created SQL queries and used JDBC connectivity to access the database
- Developed and executed Unit Test cases using JUnit framework by supporting TDD (Test Driven Development)
- Worked on implementing Microservices architecture by using containers
- Implemented Java/J2EE Design patterns like Data Transfer Object (DTO) and Data Access Object (DAO)

- Provided hands-on user training, support, troubleshooting, and software maintenance

Technologies and Environment: Java 8, Core Java, Spring Framework, Spring MVC, Spring Boot, Hibernate, RESTful APIs, JDBC, Apache Tomcat, Maven, JUnit, Log4j, HTML5, CSS3, JavaScript, jQuery, MySQL

Jr. Software Developer: Softech Creative Solutions, Kathmandu, Nepal (Jan 2013 – Mar 2014)
Designed, developed, and delivered financial and hospitality software. Prototyped application system to ensure feasibility of development. Responsible for mapping the database model into persistence objects using Hibernate Annotations.

Responsibilities and Achievements:
- Designed the front-end using HTML5, CSS3, JavaScript and AngularJS
- Used Spring ORM and DAO modules for database transaction management and developed the DAO layer using Spring, Hibernate and developed various business logics and reports using HQL
- Developed POJO objects and used Hibernate as the Object-Relational Mapping (ORM) tool to access the persistent data from SQL Server
- Excellent problem solving, analytical, interpersonal, communication skills and organizational skills.

Technologies and Environment: Java, Core Java, Spring Framework, Spring MVC, Hibernate, RESTful APIs, SOAP, JDBC, HTML, CSS, JavaScript, jQuery, MS SQL Server, Maven, JUnit, Log4j

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EDUCATION

Master of Science in Computer Science (2021-2023)
Maharishi International University – Fairfield, Iowa

Key Courses*:* Fundamentals of Programming Practices; Modern Programming Practices; Algorithms; Web Application Programming; Enterprise Architecture; Modern Web Applications

Associate of Science in Biology, Minor in Computer Science (2018-2020)
San Antonio College – San Antonio, Texas

Software Developer Bootcamp (2012)
Prime Computers (P) Ltd – Kathmandu, Nepal

Bachelor of Science in Microbiology (2006-2009)
Tribhuvan University – Kathmandu, Nepal

REFERENCES

Andrew J. Senner (Team Lead, Products Team)
Staff Engineer, John Deere ISG
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Andrew K. McDowell (Team Lead, Equipment 2.0 Team)
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