**Subhasish Malik**

**Full Stack Developer/ Sr. Java Tech Lead**

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**PROFILE SUMMARY:**

* Accomplished Software Engineer with 12+ years of extensive experience across all phases of the **Software Development Life Cycle (SDLC)**, specializing in designing, developing, and maintaining high-performance web-based applications using **JAVA/J2EE** technologies. Led architectural reviews and developed comprehensive assessments for enterprise-wide systems, providing critical insights to optimize business processes, technology integration, and organizational structures.
* Expertise in **object-oriented programming (OOP) principles**, **algorithms**, and **data** **structures**.
* **Full-Stack Development:** Proficient in **Core Java, J2EE**, and backend technologies, with significant experience in frameworks such as **Spring (Boot v3, MVC, Security), Hibernate**. Skilled in developing user- centric applications with **Angular and Redux**, and ensuring optimal performance through effective use of **Apache Tomcat, JBoss, and GlassFish** servers. Highly skilled **Angular Developer** with 7 years of experience in developing dynamic, responsive, and scalable web applications. Proficient in Angular, TypeScript, JavaScript, HTML, and CSS, with a strong understanding of RESTful APIs and state management.
* **Cloud & DevOps Expertise:** Advanced knowledge of **AWS** services (**EC2, S3, VPC, RDS, Lambda**, etc.) and **DevOps** practices, including **CI/CD pipelines** using **Jenkins, Maven,** and **Gradle**. Adept at leveraging cloud infrastructure for scalable application deployment and managing infrastructure as code. Adept at deploying and managing applications on **OpenShift** and implementing automation processes for development, testing, and production environments.
* **Database Management:** Extensive experience with both relational (**Oracle, MySQL, SQL Server**) and **NoSQL databases** (**MongoDB**). Strong skills in **SQL** development, performance optimization, and database-driven application architecture.
* **Agile & Test Automation:** Expertise in Agile methodologies (**SCRUM, KANBAN**) and test-driven development (**TDD**), with a proven track record of delivering quality software through automated testing frameworks and tools like **Jasmine, Karma**, and custom test infrastructure. Provided input for statistics and drafted summary reports.
* **Version Control & Collaboration:** Proficient with **GIT, Subversion (SVN)**, and collaborative development environments. Experienced in pair programming and cross-functional team collaboration, fostering a culture of continuous improvement and innovation.
* **Comprehensive Technical Expertise:** Deep knowledge of **UNIX, Windows, OSX** operating systems, **microservices** and **monolithic architectures**, **Swagger**, **Big Table**, **Big Query**, Open-Source contributions, and **Kernel/FFmpeg** technologies. Experienced DevOps Engineer with over 5 years of hands-on expertise in implementing, managing, and optimizing containerized applications with **Kubernetes**

**TECHNICAL SKILLS:**

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|  **Category** | **Technologies** |
| **Programming Languages** | C, C++, Python, Java/J2EE (Core Java, Java 8+, Java 8/11/17), SQL, PL/SQL |
| **Frameworks** | Spring Boot 3, Spring MVC, Hibernate, Spring Cloud, NodeJS, Express |
| **Web Technologies** | Angular 2.0+, React.js, Redux, JavaScript (ES6+), SCSS, TypeScript, JSP, jQuery, Bootstrap, JSON, HTML5, XML, CSS/CSS3, Ajax, AngularJS |
| **Java APIs** | J2EE, EJB, Servlets, JSP, JSTL, Custom Tag Libraries, JAX-RPC, JDBC, JNDI, JMS, JSON, JAXB, JUnit, Mockito, AWT, Spring MVC, Hibernate, Spring AOP, Spring DAO, Spring Core, Spring Security, Spring REST, Spring Boot, JPA, Log4j, Apache Kafka |
| **Databases** | MySQL, Oracle 10g, NoSQL, MongoDB, PostgreSQL, SQL RDBMS |
| **Amazon Web Services** | AWS (EC2, S3, Lambda, RDS), Beanstalk, API Gateway, CodePipeline |
| **Streaming Platform** | Apache Kafka |
| **Version Control Tools** | CVS, Clear Case, SVN, NPM, GitHub |
| **Build Systems** | Maven, Gradle, Ant, OAuth 2.0, Microservices architecture |
| **Methodologies** | Agile, Waterfall, Scrum |
| **IDEs** | Visual Studio Code, Eclipse, NetBeans, WebSphere |
| **Design Skills** | Design patterns (Singleton, Circuit Breaker, DAO, SDLC, Active MQ etc.), MVC Design Patterns, J2EE Design Patterns, EJB Design Patterns |
| **Operating Systems** | Windows, Mac OS, Unix, Linux (Ubuntu, Red Hat) |
| **Development Tools** | Jenkins, Docker, OpenShift, Kubernetes |
| **Testing Tools** | JUnit5, Mockito |
| **Servers** | Apache Tomcat, WebSphere, WebLogic, JBoss |

**Professional Experience:**

**Client: Johnson & Johnson Vision Care – Jacksonville, FL 07/2022 – Current**

**Full Stack Developer/ Sr. Java Tech Lead**

**Roles & Responsibilities:**

* Lead a team of 8 software engineers in developing, testing, and maintaining software applications.
* Developed Java-based web applications utilizing **Spring MVC**, **Hibernate**, and **Java 17** for database interaction. Implemented microservices architecture using **Spring Boot 3** and **Docker**, enabling faster deployment and scaling of applications.
* Developed dynamic and responsive **Angular applications** with **TypeScript** and **RxJS**. Integrated RESTful APIs, optimized HTTP calls, and improved application **performance**.
* Implemented **state management** using **NgRx/BehaviorSubject** for efficient data flow. Enhanced UI/UX by utilizing **Angular Material** and **Bootstrap**.
* Reduced page load time by **30%** using efficient data caching and lazy loading.
* Successfully migrated an **AngularJS** application to **Angular 12+**.
* Built a **real-time chat application** using WebSockets and RxJS.
* Optimized application **performance** through lazy loading and module splitting.
* Worked in **Agile** methodology with daily stand-ups and sprint planning.
* Worked as a Full Stack Software Engineer, specializing in front-end development with **Angular, TypeScript**, **and RxJS**,
* and back-end development using **Spring Framework** and **serverless architectures**.
* Led the implementation of authentication and authorization services using **Spring Security** and **OAuth 2.0**, strengthening security measures and aligning with industry standards.
* Developed and maintained asynchronous systems using **Angular, SNS,** and **DynamoDB**, ensuring real-time data processing and seamless communication between distributed services.
* Responsible for maintaining and expanding **AWS** (**Cloud Services**) infrastructure using **AWS** Stack especially worked with database setup and maintenance on **AWS EC2**. Designed and developed serverless applications using **AWS Lambda**.
* Integrated Lambda with other AWS services like **API Gateway**, **S3,** and **DynamoDB.**
* Automated deployment processes with **Jenkins and Docker**, decreasing deployment time by 50% and reducing human error. Conducted code reviews and maintained **CI/CD pipelines**, which improved code quality and reduced post-release defects by 35%.
* Implemented **RESTful APIs** to facilitate seamless communication between **microservices**, enhancing application scalability and maintainability. Led the design and development of **microservices** using **Spring Cloud** and **Docker** containers for a cloud-native application.
* Optimized database queries by using **AWS RDS**, resulting in a 20% reduction in query processing time
* Developed RESTful services using **Spring Boot** 3 and integrated them with **MongoDB**, leveraging the **MongoDB Aggregation Framework** to perform complex queries and optimize data retrieval.
* Created comprehensive documentation and conducted training sessions on **cloud** best practices, increasing team productivity by 15%
* Developed and maintained core **Python** backend services using Flask and Django for web applications, improving performance by 20%.
* Created and optimized REST APIs that handle over 1,000 requests per second, enhancing user experience and scalability.
* Automated business processes and data pipelines using **Python**, **Pandas**, and **SQL** for data transformation and reporting
* Collaborated with cross-functional teams to design and implement new features, following Agile methodologies. Provided technical leadership and mentoring, leading to a 15% increase in team productivity.
* Lead the migration of legacy applications to **OpenShift**, optimizing containerized deployments for production workloads.
* Implemented and maintained **OpenShift** clusters, including configuration management, monitoring, scaling, and resource optimization.
* Designed and built **CI/CD** pipelines using **Jenkins** and **GitLab** **CI** for automated testing, deployment, and monitoring on **OpenShift**.
* Integrated **Kubernetes**-based services into **OpenShift** environments, ensuring smooth application deployment, scaling, and monitoring.
* Managed application life cycle on **OpenShift**, including scaling, patching, and troubleshooting of **OpenShift** environments.
* Collaborated with development teams to automate deployment processes and reduce manual intervention, improving time-to-market for new features.
* Designed and optimized data pipelines to process and analyze large-scale datasets using **Google Big Query** and **Google Bigtable**, improving query performance by 40%.
* Implemented partitioning and clustering strategies in **Big Query** to manage terabytes of data, resulting in a 25% cost reduction.
* Develop and optimize complex **SQL queries**, stored procedures, and functions for data manipulation and reporting using **Oracle SQL** and **PL/SQL**.
* Developed and maintained complex **TypeScript** applications, focusing on improving performance and scalability.
* Worked with **React** and Node.js to build full-stack applications with a focus on RESTful APIs and microservices architecture.
* Implemented **TypeScript** for type safety across large-scale codebases, reducing runtime errors by 25%.
* Led the development and execution of full-stack web applications using Spring Boot 3, Scala, Java 8, and Node.js.
* Wrote unit and integration tests using JUnit, Mockito, and Selenium, achieving over 85% test coverage.
* Developed and maintained high-traffic, high-availability applications using **Node**.js and **Express**.js, ensuring robust API endpoints and scalability.
* Developed and deployed microservices using Node.js and Express.js to break down monolithic applications into modular services.
* Designed and implemented user authentication and authorization systems using JWT, OAuth2, and Passport.js.
* Deployed and managed **Kubernetes clusters** on **AWS EKS** and **Google Kubernetes Engine (GKE)**, improving the scalability and availability of cloud applications.
* Automated deployment pipelines using **Jenkins** and **GitLab CI** integrated with **Kubernetes**, reducing deployment times by 30%.
* Led the migration of a monolithic application to a microservices architecture deployed on **Kubernetes**, enabling easier scaling and higher fault tolerance.
* Designed and implemented a custom load balancing solution to handle incoming traffic, optimizing resource usage by 30%.
* Led the migration of legacy systems to cloud infrastructure (**AWS**), reducing hosting costs by 20%.
* Developed multiple high-performance web applications using **React**.js, **Redux**, and **TypeScript**, focusing on scalability and responsiveness.
* Built reusable UI components and libraries with React, reducing development time by 30% for new features.
* Utilized React Router and React Hooks to manage routing, state, and lifecycle methods efficiently.
* Led the design and optimization of **PostgreSQL** databases to support multiple applications, ensuring high availability and scalability. Wrote complex **SQL** queries for reporting, data extraction, and aggregation, optimizing performance using indexing and query tuning techniques.
* Created **stored** procedures, triggers, and views to automate business logic and improve data integrity.

**Client: McGraw Hill Education, Nashville, TN 01/2021 – 06/2022**

**Role: Full Stack Developer/ Sr. Java Tech Lead**

**Roles & Responsibilities:**

* Led all phases of the **Software Development Life Cycle (SDLC)** including requirements gathering, design, development, testing, deployment, and maintenance, resulting in a 20% decrease in bugs and system downtime through robust test automation.
* Spearheaded the development of a microservices-based architecture using **Spring Boot** 3 and **Java 17**, improving system scalability and performance by 30%.
* Developed Java-based solutions in an Agile environment, focusing on core Java concepts such as **OOP**, **Collections**, and **Exception** handling.
* Designed and developed diverse web and enterprise applications using **Java, J2EE, REST API, Spark SQL, Big Data** and **AWS** technologies.
* Managed the day-to-day operations of **Oracle databases**, including backup, recovery, and patch management, ensuring data integrity and availability
* Converted monolithic applications into **microservices** using **Spring Boot 3**, leading to a 25% increase in system performance.
* Developed and configured Spring modules including **Spring IOC, AOP, MVC, Boot,** and **Security** to enhance modularity and security.
* Designed and developed scalable **Angular** applications with custom components and directives.
* Ensured cross-browser compatibility and responsive **UI** across multiple devices.
* Collaborated with backend developers for **API integration** and data handling.
* Implemented unit testing using **Jasmine** and **Karma** for robust application quality.
* Improved application performance by **40%** by optimizing **Angular** change detection and caching mechanisms.
* Spearheaded a **component library** for reusability across multiple projects.
* Developed **RESTful APIs** and integrated them with **Angular 9** front-end applications, improving user interaction and experience. Developed analytics and business strategies through collaborative relationship management, focusing on growth and acquisition, and applying analytical and problem-solving skills in ops.
* Managed **Kubernetes** clusters on **OpenShift**, configuring and maintaining a multi-cluster environment.
* Developed deployment scripts and automated processes using **Ansible** and **Terraform** to provision infrastructure in **OpenShift**.
* Designed and managed **CI**/**CD** pipelines for microservices-based applications, improving release cycles and application uptime.
* Proficient in Eclipse-based development environments and experienced in using collaborative tools such as **Confluence** and **JIRA**.
* Developed and maintained full-stack applications using **Spring Boot** 3for robust backend services and **React** for dynamic, responsive front-end interfaces, ensuring seamless integration and optimized performance across the application.
* Collaborated with cross-functional teams in consulting projects to align IT strategies with business goals, leveraging platforms like **OpenShift** and **PaaS** environments for scalable deployments. Proficient in **Angular** framework and **Typescript** scripting for automating processes and improving system efficiency.
* Experience in **NoSQL** database like **MongoDB** installation, configuration and in designing **MongoDB** multi-shared cluster and monitoring with MMS.
* Designed and implemented new features for a financial dashboard using **React.js, Redux**, and **Material-UI**, leading to a 20% increase in user engagement.
* Integrated third-party services like Stripe for payment processing and Firebase for authentication.
* Optimized **React** component lifecycle methods to improve application performance and reduce re-renders.
* Developed a high-traffic e-commerce platform using **React**.js, ensuring a seamless and responsive user experience across desktop and mobile devices.
* Managed application state with **Redux** and **Redux** Thunk, handling complex data flows and asynchronous requests.
* Implemented **RESTful** API integration to fetch product data, handle user authentication, and process payments.
* Built scalable, full-stack applications using **Node**.js, **Express**.js, **React**, and **MongoDB** for various projects.
* Designed a file-upload system utilizing **Amazon** **S3** for large file storage, reducing operational costs by 25% and improving file management speed.
* Enhanced API security by implementing rate-limiting, input validation, and error handling with Express middleware.
* Contributed to front-end development with **React**, creating reusable components and optimizing page load times using Webpack and Babel.
* Applied CSS-in-JS (styled-components) for styling React components, leading to more modular and maintainable code.
* Collaborated with the front-end team to integrate back-end services with **Django** to create seamless user interfaces.
* Troubleshot and debugged complex **Python** applications, enhancing reliability and speed.
* Used Java-specific debugging tools (e.g., JDB, Eclipse Debugger) to diagnose production issues, often involving complex multithreaded code, database interaction, and memory leaks. Investigated logs (Log4j, SLF4J) and analyzed stack traces to pinpoint root causes.
* Built and deployed scalable **GraphQL** APIs using Apollo Server and **Node**.js for a multi-platform application.
* Designed schemas and resolvers for complex, nested data models, enabling flexible and efficient data retrieval.
* Integrated third-party services (e.g., payment gateways, external APIs) into **GraphQL** resolvers, streamlining client-side integration.
* Improved database interactions by implementing DataLoader to batch and cache database queries, reducing N+1 query problems.
* Automated **API** documentation generation with Apollo Server, making it easier for frontend developers to consume **APIs**.
* Worked closely with frontend developers to ensure proper integration and optimize data flow between client and server.
* Integrated third-party services and **APIs** to enhance platform functionality and improve user experience.
* Spearheaded the migration of **JavaScript** codebase to TypeScript, improving maintainability and readability.
* Built reusable **TypeScript** components and services for UI/UX with React, significantly speeding up development.
* Collaborated with UI/UX designers to implement responsive design using **TypeScript** and modern CSS frameworks (SCSS, Tailwind CSS).
* Optimized **database** queries and backend logic, reducing page load time by 40%.
* Collaborated with front-end teams to ensure seamless integration between backend services and front-end interfaces.
* Utilized **Kubernetes** for **container** **orchestration** and continuous delivery pipelines for seamless deployment.
* Designed and implemented **CI/CD pipelines** using **CircleCI** and **ArgoCD** to enable automated application deployments to **Kubernetes clusters** on **AWS EKS**.
* Developed **Dockerfiles** and containerized legacy applications, transitioning them to a microservices-based architecture deployed in Kubernetes clusters.
* Managed **Kubernetes deployments**, **stateful sets**, and **services** to ensure efficient container orchestration for high-traffic applications.
* Managed and maintained **PostgreSQL** databases, including installation, configuration, and tuning for optimal performance.

**Client: Olympus America Inc., Center Valley, PA 03/2019- 11/2020**

**Role: Sr. Java Full Stack Developer**

**Roles & Responsibilities:**

* Developed and maintained high-performance web applications using **Java, Spring,** and **Angular**, ensuring seamless user experiences. Enhanced application responsiveness, leading to a 30% improvement in page load times through optimized database queries and caching mechanisms.
* Designed and implemented a scalable **microservices architecture** using **Spring Boot** for a large-scale e-commerce platform, improving overall system performance and reducing downtime.
* Developed and deployed several **RESTful APIs** using **Spring Boot**, integrated with front-end applications and external services.
* Utilized **Spring Data JPA** for seamless interaction with PostgreSQL and **MongoDB**, improving data access performance.
* Designed a robust **user authentication system** using **Spring Security** and OAuth2 for secure, token-based access control.
* Automated deployment pipelines with **Jenkins** and **Docker**, resulting in faster build and deployment times and reducing errors in production.
* Assisted in the setup and maintenance of **OpenShift** clusters and implemented monitoring and alerting solutions to ensure uptime.
* Developed an end-to-end automation solution for provisioning and managing **OpenShift** clusters across different environments using **Terraform** and **Ansible**.
* Integrated GitLab CI to automate the deployment of applications onto the **OpenShift** platform, reducing deployment times by 40%.
* Optimized an existing Jenkins CI/CD pipeline to integrate **OpenShift**-based deployments, improving application release cycles by 30%.
* Designed scalable backend solutions utilizing **Node.js** and **GraphQL**, integrated with **SQL** databases like **Postgres** and **NoSQL** databases such as **DynamoDB**. Leveraged **Amazon Web Services (AWS)** and containerization technologies to enhance system efficiency and reliability.
* Designed a full-stack application using React on the frontend and Node.js with **GraphQL** on the backend, creating a smooth and responsive user interface.
* Developed **GraphQL** resolvers and integrated authentication/authorization logic to ensure secure and efficient data access. Managed complex data relationships in the **GraphQL** schema, making use of tools like Apollo Federation for service composition.
* Integrated real-time data updates via **GraphQL** subscriptions for live chat features, enhancing the user experience.
* Implemented performance optimization techniques for **GraphQL** queries, including batching and caching mechanisms.
* Built and maintained **RESTful** APIs using **Node**.js and **Express**, improving response times by 30%.
* Developed real-time communication features with Socket.io, enhancing user interaction.
* Implemented authentication systems using JWT and **Passport**.js to ensure secure access control.
* Optimized database queries (**PostgreSQL**, **MongoDB**), reducing latency by 20%.
* Automated deployment pipelines with **Docker** and **Jenkins**, increasing release efficiency.
* Implemented **state management (NgRx, Redux)** for efficient data handling and performance.
* Built **progressive web applications (PWAs)** with offline support and push notifications.
* Optimized **lazy loading, tree shaking, and OnPush change detection** to improve load time by **40%**.
* Integrated **RESTful APIs, WebSockets, and GraphQL** for real-time data synchronization.
* Ensured application security with **OAuth, JWT Authentication, and OWASP best practices**.
* Worked in **Agile (Scrum)** environment, collaborating with cross-functional teams.
* Migrated on-premises applications to **AWS**, utilizing services like **EC2, RDS,** and **S3**, which resulted in improved scalability and cost efficiency. Implemented automated **CI/CD pipelines** using **Jenkin, Kafka,** and **DynamoDB** for seamless deployment of Java applications.
* Designed, implemented, and maintained **CI/CD** pipelines using **Jenkins**, **GitLab** CI, and **Docker**, improving deployment speed by 40%.
* Automated build and deployment processes for **microservices** architecture, enabling zero-downtime deployments with **Canary** and **Blue**/**Green** strategies.
* Worked closely with development teams to containerize legacy applications using **Docker**, improving the portability and scalability of services within **Kubernetes**.
* Created and managed **CI/CD pipelines** using **Jenkins** and **GitLab CI**, enabling automated deployments to **Kubernetes clusters**, reducing release times by 40%.
* Implemented continuous integration workflows using **AWS CodePipeline** and **CircleCI**, ensuring seamless deployments and contributing to business growth in a competitive market.
* Assisted in building user interfaces for client-facing applications using **React**.js and **JavaScript** ES6+.
* Collaborated in a team of developers to create interactive data visualization dashboards using **React** and **D3**.js.

**Client: Union Pacific Railroad – Omaha, NE 03/2016 – 07/2018**

**Role: Sr. Java Full Stack Developer**

**Roles & Responsibilities:**

* Involved in all stages of **Software Development Life Cycle (SDLC)** of the project in **Agile methodology**.
* Involved in the development of user interface applications and professional web applications using **HTML5, SCSS, JavaScript, jQuery, Ajax, JSON, Xml, Node JS, Bootstrap and Angular** with **Typescript**
* Designed and Developed End to End customer self service module using annotation-based **Spring MVC, Hibernate,** and **jQuery**. Implemented data access layer i.e., **DAO** Classes using **Hibernate** as an **ORM** tool and configured xml files according to **hibernate framework**.
* Implemented Bean classes and configured in **Spring** configuration file for Dependency Injection, Developed Controller Classes using **Spring MVC, Spring AOP, Spring Boot, Spring Batch modules**, handled **security** using **Spring Security**
* Integrated **REST API** with Spring for consuming resources using **Spring Rest Templates** and developed **RESTful** web services interface to Java-based runtime engine and accounts.
* Experience in writing complex **PL/SQL** queries using **joins, Stored Procedures, Functions, Triggers, cursors,** and indexes in **Oracle DBMS**
* Developed and maintained **high-performance, scalable Angular applications** using best practices.
* Designed and implemented **state management solutions** with **NgRx and RxJS** to optimize data flow.
* Led a team of **frontend developers**, conducting code reviews and improving best practices.
* Integrated **RESTful APIs and WebSockets** for real-time data updates.
* Implemented **lazy loading and code splitting**, improving app performance by **35%**.
* Developed **micro frontend architecture** to enable modular deployments in enterprise applications.
* Worked on **Log4j** for logging errors, messages and performance logs and implemented test cases in **JUnit**.
* Deployed the **war** file of the enterprise application on **WebSphere** application server that handles various requests from Client and fixed deployment issues.
* Implemented complete **Maven** build life cycle to achieve organized application structure and conflict free dependencies in pom.xml file. Used **JIRA** tool for Issue/bug tracking, monitoring of work assignment in the system.

**Client: Capital One, Richmond VA 12/2014 – 02/2016**

**Role: Sr. Java/J2EE Developer**

**Roles & Responsibilities:**

* **Agile** and **Scrum** process is used for tracking and developing the application. Involved in Agile planning and Estimation Sessions of user stories and also participating in **Scrum** Meetings to update the status daily.
* Involved in Developing the User Experience using **JSP, Struts, CSS, JavaScript**.
* Lead and mentored other team members on **JavaScript and AngularJS** best practices
* Involved in Developing client-side stubs for the existing **SOAP web services**.
* Used spring’s application context to instantiate the beans and mapping them to the appropriate implementations using getters and setters. Implemented persistence layer to access and update information in the database.
* Worked Extensively on **Struts2** Action Classes. Configured and deployed the application on WebLogic 11 application server.
* Used ClearCase as source control. Used Log4j for logging Errors. Used **SOAPUI** to test the application and fix the defects.
* Used ant for building the application.
* Performed **AJAX** calls for validating User profile. Configured and worked on RSA Access Manager an authenticating tool.
* Performed troubleshooting of client **CRM** issues and maintained documentation of all reported issues.

**End Client: Center for Medicare & Medicaid Services (CMS), Atlanta GA 03/2013 –11/2014**

**Role: Java/J2EE Developer**

**Roles & Responsibilities:**

* Involved in requirement gathering and Designing **UML** diagrams like state diagrams and sequence diagrams.
* Involved in designing the screen workflow and mockup screens.
* Used **Struts** to design and implement the Controller layer. Integrated Struts and Stateless Session beans for various business logic executions.
* Involved in **unit testing** and validation of the application.
* Used **JavaScript** and **jQuery** for client-side validations. Involved in Bug fixing and functionality enhancements.
* Developed the code satisfying the Section 508 compliances like **JAWS, MAGIC, and DRAGON**.
* Implemented various **J2EE** design patterns like **DAO** pattern, Business Delegate, Singleton etc.
* Developed the user interface with **HTML, JavaScript, JSP** and **Tag** Libraries using **Struts framework**.
* Designed Hibernate configuration file for making database connection. Used **Hibernate** for maintaining **OR Mapping (ORM).** Developed **Hibernate** mapping file and the **HQL** queries for retrieving data from the database.

**EDUCATION**:

* Bachelor of Engineering in Mechanical Engineering, Jadavpur University, Kolkata, India.
* Master of Science in Mechanical Engineering, South Dakota School of Mines & Technology, Rapid City, USA