# SUDIP ADHIKARI

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## JAVA/J2EE DEVELOPER

Reliable Full Stack Java Developer with Almost 6 years of professional experience administering projects through all phases of software development life cycle. Streamline backend development, application integration, and technical support while improving performance and functionality. Skilled in implementing projects using technologies such as Java, React, Spring Boot, Hibernate, MySQL, Microservice, AWS, IntelliJ, REST API, Agile and Jira.

Software Development Life Cycle • Java Programming • Design Patterns
• Spring Boot •Backend • Data Structures and Collections • Dependency Injection

**Languages:** Java
**Web:** HTML5, CSS3, SCSS, Bootstrap, JavaScript, XML, jQuery, AJAX, React, PHP, JSP, Servlet
**Web Services**: REST API, Microservices, JSON
**Web and Application Servers:** Apache Tomcat, Glassfish, JBoss
**Frameworks:** Spring (MVC, Boot, Security, Data, AOP, Dependency Injection, Cloud), Laravel, JPA, Hibernate, React, jQuery.
**Databases:** MySQL, MongoDB, PostgreSQL, SQL Server
**Design Patterns:** MVC, Singleton, Factory, Observer, Façade, Strategy, Strategy Design Pattern
**SDLC:** Agile / Scrum, Waterfall
**Testing:** Junit, Mockito, TDD
**Tools:** Postman, Maven, Eclipse, IntelliJ, Jira, Visual Code Studio, Git, Star UML, Postman, Swing, Tomcat, REST, JUnit
**Platforms:** Windows, Linux
**Cloud:** AWS**,** EC2, S3, Elastic beanstalk, SNS, SQS, AWS Secret Manager, AWS Gateway, RDS, DynamoDB

## PROFESSIONAL EXPERIENCE

*CAREER NOTE: Completed on-campus studies and currently taking distance education courses to complete a* ***Master's Degree in Computer Science*** *(Available for full-time, W-2 employment).*

**Tekreant Inc (7-Eleven Inc), Irving, Texas ● August 2023- December 2023.**
American convenience store chain, headquarter in Irving, Texas.

**Senior Full Stack Java Developer**
Contributed to the enhancement and expansion of the Workbench application by developing backend APIs using Spring Boot and implementing UI components in React. Played a key role in adding new functionalities to the application. Additionally, provided valuable support for production issues, ensuring seamless operation and user satisfaction.

- Developed and maintained the backend services for the Workbench application using latest Spring boot version.
- Involved in Agile stand-up meetings throughout the project with team members on day-to-day basis for the update on project status using JIRA.
- Collaborated with the architecture and design teams to implement the suggested project structure, ensuring a scalable and maintainable codebase.
- Utilized Java 17 and the latest stable version of Spring Boot to create efficient and high-performance RESTful APIs.
- Implemented Spring Security using Ping ID through SSO login for secure authentication and JWT for token-based security.
- Employed Lombok for auto-generating boilerplate code, reducing redundancy and enhancing code readability.
- Leveraged Model Mapper for seamless mapping between different DTO and models.
- implemented Swagger for API documentation, facilitating clear communication between frontend and backend teams.
- Ensured application health using Actuator for comprehensive health checks.
- Conducted unit and integration tests using spring-boot-starter-test using Junit and Mockito framework contributing to the overall code quality and reliability.
- Employed logging mechanisms, with a preference for log4j and logback for effective troubleshooting and monitoring.
- Utilized spring-boot-starter-validator for input validation, ensuring data integrity and security.

- Collaborated closely with the development team to integrate Spring Boot applications seamlessly with PostgreSQL and Cassandra databases.
- Used AOP and IOC features of Spring framework, and JPA/Hibernate for ORM.
- Implemented and maintained data consistency and integrity through effective transaction management in Spring Boot applications.
- Frequently collaborated with the data lake team to formulate and optimize queries, ensuring seamless integration of new features and enhancements.
- Used new relic for the for comprehensive monitoring of the system performance and identification of potential issue.
- Automated deployment processes for complex applications within Kubernetes pods, ensuring consistent and reliable software delivery across various environments.
- Collaborated with cross-functional teams to align CI/CD strategies with project goals, enhancing overall development efficiency and quality.
- Utilized scheduler services in Spring Boot applications for automating periodic tasks and improving system efficiency.
- Implemented threaded background tasks to handle asynchronous processes, improving the responsiveness of the application.
- Designed and developed microservices architecture, breaking down monolithic applications into modular, scalable, and independently deployable services.
- Provided crucial production support, actively communicating with end-users to understand and resolve issues promptly.
- Collaborated with the team to define and implement exception handling mechanisms for robust error management.
- Managed and optimized application infrastructure on AWS, ensuring scalability, reliability, and cost-effectiveness.
- Engaged in ongoing learning and professional development, staying abreast of the latest technologies and best practices in backend development.
- Played a pivotal role in the development of a workbench application using React, contributing to the frontend architecture and user interface design.
- Implemented user interface guidelines and standards throughout the development and maintenance of the website using HTML5, React JS, CSS3, AJAX, TypeScript, and jQuery.
- Done TypeScript and JavaScript Integration, integration with Backend and created reusable components.
- Worked in container-based technologies like Docker**.**

***Technologies Used:*** *Java, Spring Boot, Hibernate, Postgres, Cassandra, IntelliJ, UNIX / XML, REST API, Git, Postman, Junit, JavaScript,* Microservices, CICD, Jenkins, Microservices, ActiveMQ, Junit, Mockito, *AWS EC2, AWS Beanstalk, AWS API Gateway, AWS SNS, AWS SQS, Micrometer, Prometheus, React, Redux, TypeScript, Docker, MongoDB, Kafka, XML, JSON, Log4J, Multithreading, Redis, Git, SVN, New relic, AOP, Spring components, Scheduler, Kubernetes, JWT, Swagger.*

**Try Catch IT Services Nepal, Kathmandu, Nepal ● July 2021- December 2021.**
Software development company specializing in CRM software.

**Senior Java Developer**
Improved functionality and performance of current CRM software by developing backend components, integrating applications with web services, and providing support.

- Involved in Agile stand-up meetings throughout the project with team members on day-to-day basis for the update on project status using JIRA.
- Collaborated with the team to design and implement scalable and responsive web interfaces.
- Designed and implemented complete end-to-end Microservice applications using MVC principles and RESTful services using Spring Boot and Hibernate.
- Implemented Java/J2EE Design patterns like Business Delegate and Data Transfer Object (DTO), Data Access Object.
- Used AOP and IOC features of Spring framework, and JPA/Hibernate for ORM.
- Integrated Spring ORM frameworks Hibernate for database operations with ORACLE DB and PostgreSQL.
- Designed and Developed REST Web Services based on REST architecture, implemented various HTTP methods, did Error Handling to provided data to the front end React in JSON format.
- Applied Test Driven Development using Junit and Mockito to increase the Test coverage.
- Used CI/CD tools Jenkins, Git and Docker registry for configuration.
- Developed user-friendly, reactive interfaces using React JS and Redux.

- Done TypeScript Integration, integration with Backend and created reusable components.
- Manage and deploy cloud-based applications on AWS infrastructure using Elastic Beanstalk and EC2
- Configure and manage Amazon API Gateway for API development and management.
- Composed and executed MongoDB scripts and queries to fetch and test data from NoSQL databases.
- Used Apache Kafka for building real-time streaming data pipelines (Message Queues) for asynchronous exchange of vital information between multiple business applications.
- Used Hibernate Transaction Management, Hibernate Batch Transactions and Cache concepts using Redis.
- Written SQL Scripts and PL/SQL Scripts to extract data from Database and for Testing Purposes.
- Embraced reactive programming using Spring Web Flux for improved responsiveness and scalability.
- Monitored the Error logs using Log4j and fixed the problems.

***Technologies Used:*** *Java, Spring Boot, Hibernate, MySQL, IntelliJ, UNIX / XML, REST API, Git, Postman, Junit, JavaScript,* Microservices, CICD, Jenkins, Microservices, ActiveMQ, Junit, Mockito, *AWS EC2, AWS Beanstalk, AWS API Gateway, AWS SNS, AWS SQS, Micrometer, Prometheus, React, Redux, TypeScript, Docker, MongoDB, Kafka, XML, JSON, Log4J, Multithreading, Redis, Git, SVN*

**CRUPEE SOFTWARE DEVELOPMENT PVT. LTD, Kathmandu, Nepal ● Jan 2019- June 2021**
Korean-based software development company for lottery systems, travel, and crypto coin.

**Senior Java Developer**
Implemented Full Stack development for web applications to analyze, process, and render data.
- Performed analysis of system requirements.
- Implemented Agile Methodology for software development.
- Performed innovative design of systems and databases with ER diagrams and entity mapping.
- Designed Microservice applications with Spring Boot and JPA/Hibernate for ORM.
- Implemented Spring Security using JWT.
- Support creating user interface based on user requirements.
- Used Apache Kafka for building real-time streaming data pipelines (Message Queues) for asynchronous exchange of vital information between multiple business applications.
- Designed and implemented highly functional databases using PostgreSQL Database.
- Manage and deploy cloud-based applications on AWS infrastructure using Elastic Beanstalk and EC2.
- Implement and manage Amazon S3 buckets and IAM policies for secure file storage and access.
- Implemented user interface guidelines and standards throughout the development and maintenance of the website using HTML5, React JS, CSS3, AJAX, JavaScript, and jQuery.
- Integrated responsive and reactive design with the backend applications.
- Done Integration with TypeScript to enhance the robustness and maintainability of the codebase.
- Manage AWS Secret Manager for secure storage and access to application secrets.
- Worked in container-based technologies like Docker**.**
- Participated in code reviews, providing constructive feedback and suggestions to enhance code quality and maintainability.
- Created JSON request and validated the response using postman Interceptor and Swagger UI.

***Technologies Used:*** *Java, Spring Boot, Hibernate, Microservice, React, Redux, TypeScript, PostgreSQL, IntelliJ, UNIX, JavaScript, jQuery, Ajax, HTML5, CSS3, Bootstrap, Git, Jira, CICD, Postman, ActiveMQ, Jenkins, Redis, Kafka, AWS EC2, AWS Elastic Beanstalk, S3 bucket, AWS Secret Manager, SNS, SQS, Docker, MongoDB, Swagger, Multithreading, Git, SVN*

**MANDALA SYSTEM PVT. LTD, Kathmandu, Nepal ●Jan 2017- December 2018**
Technology company specializing in stockbroker system and different services to government.

**Java Developer**
Designed and implemented Full Stack applications and software solutions using latest industry standard technologies and frameworks.

- Developed Cross-Platform (Web & Client-Server) application development and design using Object-Oriented Programming, Core Java J2EE technologies.
- Experienced working in projects involving Agile, Scrum, Test First, and Waterfall methodologies.
- All the functionalities are implemented using Spring Boot and Hibernate.
- Developed Micro Services for service-oriented architecture to build flexible and independently deployable software.
- Designed and developed the RESTful web services using the JAX-RS API to communicate over the network.

- Developed application using Spring Boot to fasten the application for removing boiler plate configurations.
- Performed Junit Testing
- Supported in requirement collection from the client and in designing the ER models.
- Provided Technical support in existing broker system.
- Help in converting the old projects to Java Spring boot.
- Expertise in writing unit test cases with Mockito and JUNIT and performed integration testing.
- Designed and implemented highly functional databases using PostgreSQL and MySQL Database.
- Apache Maven tool has been used for the build and deployment of the application.
- Involved in unit testing using JUnit and Mockito test cases.
- Used React JS to create views to hook up models to the DOM and synchronize data with server as a Single Page Application (SPA) and Axios to make REST API calls.
- Assisted in the deployment and maintenance of applications on production servers.
- Deep knowledge of Java, including its internally built framework and a collection of pre-integrated open-source tools such as Dropwizard. Comfortable working with Java 11 and other versions.

***Technologies Used:*** *Java, Spring Boot, Hibernate, PostgreSQL, IntelliJ, UNIX, JS, jQuery, Ajax, CSS, Bootstrap, Git, Jira, JSP, Servlet, Git, Postgres, MySQL, Oracle, Multithreading, JMS, ActiveMQ, Maven, Junit, Mockito, JSP, Servlet, Agile, Microservices, React JS, Hibernate ORM*

## ACADEMIC PROJECT

**Library Management System, MIU (2022):** Developed Desktop application for diverse users, administrators, and librarian for log-in, checkout, and CRUD operations on book and library members.
***Technologies Used:*** *Java, Swing.*

**Banking System / Design Pattern, MIU (2022):** Developed banking application with functionality for deposit, withdrawal, interest calculation, and credit card management, using best practices and design patterns. ***Technologies Used:*** *Java, Design Patterns (Strategy, Factory, Template, Observer).*

**Alumni Management Portal, MIU (2022):** Developed web application which is designed to keep track of college graduates, their jobs, and faculties.
***Technologies Used:*** *Spring Boot, Hibernate, React, Redux, ECharts, PostgreSQL, OAuth2.0 (Keycloak), Git.*

**Car Fleet Application, MIU (2023):** Developed Spring Boot Microservice application which is designed to keep track of car rented and manage them for the client.
***Technologies Used:*** *Spring Boot, Hibernate, JMS, ActiveMQ, PostgreSQL, MongoDB, Junit, Mockito, RestAssured, Log4J, Prometheus, Grafana, Scheduling, AOP*

## EDUCATIONs

**Master of Science in Computer Science**
*(In progress via distance education; expected completion October 2024)*
Maharishi International University, Fairfield, Iowa

*Key Courses: Fundamental Programming Practice, Modern Programming Practice,*
*Web Application Programming, Advanced Software Development,*
*Web Application Architecture, Algorithm, Mobile Device Programming, Database Management System, Enterprise*
*Architecture, Cloud Computing(AWS)*

**Bachelor of Science in Computer Science and Information Technology**
Ambition College, Kathmandu, Nepal (2017)