SANJEEV THAPA

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JAVA DEVELOPER

Passionate Java Developer with 2 years of experience in designing, developing, testing and deploying robust and scalable applications in CRM domain using JAVA, PHP, JavaScript, Docker and AWS. Results-oriented with the ability to complete projects within deadlines. Skilled in agile methods, good at adjusting to changes and working well with others in fast-paced projects to make top-notch software on time.

Agile • Data Structures and Algorithms • Cloud Computing • System Design • Object Oriented Programming • Dependency Injection • Microservices • CI/CD • Test Driven Development (TDD)

Languages: Java, JavaScript, PHP
Web: HTML, CSS, React.js, Node.js
Web Services: REST, GraphQL
Web/App Servers: Apache/Tomcat, Nginx
Frameworks: Spring Boot, Spring Security, Spring Data, Spring Cloud, Hibernate, Express.js
Databases: MySQL, PostgreSQL, Oracle
Design Patterns: Singleton, Facade, MVC, Prototype, Session Factory
SDLC: Agile
Tools: Atlassian Jira, Maven, IntelliJ, Visual Studio Code, NPM, Composer
Platforms: MacOS, Linux

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).*

WorldLink Communications, Kathmandu, Nepal • 04/2021 – 08/2023
Internet service provider.

Software Engineer
Built Microservices
- Refactored Monolithic PHP application to an Event-Driven Microservice Architecture using Spring Boot, resulting in significantly enhanced scalability.
- Optimized wildcard search in CRM by integrating Elasticsearch and Spring Boot, cutting the response time by more than 50%.
- Created Pipelines by using GitLab CI/CD to deploy Microservice Applications on Staging and Production environment, resulting in an automated deployment process, which saved time for DevOps and developers.
- Orchestrated Load Balancing using Nginx and Distributed Cluster using Docker Swarm on Production environment, resulting in a zero down time deployment.
- Built an interactive UI form using React within CRM System, enhancing data entry efficiency for system admins by enabling direct input from customers, ensuring accuracy and saving time.
- Migrated CRM's central RDBMS from MySQL to PostgreSQL using Spring Boot Command Line Runner, enhancing performance on complex read-write operations and large datasets.
- Engineered a Real-Time Report Service employing pre-aggregation techniques, slashing CRM report loading time from minutes to milliseconds.
- Performed Unit and Feature Tests using JUnit, Mockito and Postman Api Test, ensuring robust code quality and functionality.

Technologies Used: *Java, Spring Boot, JavaScript, NodeJS, Express, ReactJS, PostgreSQL, MySQL, MongoDB, Elasticsearch, RabbitMQ, Syslog-ng, Docker, Gitlab CI/CD.*

ACADEMIC PROJECTS

Maharishi International University (2024) – Full Stack Property Management System: Property Management System is engineering proof of concept for managing properties. I contributed by creating RESTful backend with Spring Boot and interactive user interface with React.js. Utilized Java, JavaScript, Spring Boot, ReactJS, NodeJS.

Maharishi International University (2023) – Enterprise Resort Management System: Enterprise Resort Management System is an online system where customers can make reservations and pay for different packages. My responsibilities were to create domain driven RESTful application where I used Java on backend and PostgreSQL on Database. Utilized Java, Spring Boot, PostgreSQL.

Leeds Beckett University (2022) – Smart Retail System using Arduino and RFID: Smart Retail System is a technologically rich retail solution that uses Arduino and RFID to automate the retail process and avoid robberies. Utilized PHP, C++, Python, Docker.

EDUCATION

Master of Science in Computer Science
(In progress via distance education; expected completion 04/2026)
Maharishi International University, Fairfield, Iowa

Key Courses: Enterprise Architecture, Web Application Architectures, Software Architecture, Cloud Computing

Bachelor of Science in Computing in Computer Science
Leeds Beckett University, Leeds, West Yorkshire (2022)

BSc (Hons) Computing in Computer Science
The British College, Kathmandu, Bagmati (2019)