

SAURAB GHIMIRE

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FULLSTACK JAVA DEVELOPER

AWS Certified Full Stack Java Developer with nearly **5 years** of experience delivering scalable enterprise applications across diverse domains, including Healthcare, Public Sector, and Arts & Culture. Successfully developed impactful and high-performance solutions like the Metropolitan City ERP System and interactive event exploration platform, leveraging **Java, Spring Boot, React, Node.js** and **AWS**. Proficient in designing and implementing robust backend systems, scalable microservices, and front-end interfaces using technologies such as, **PostgreSQL, RabbitMQ, Spring, Jenkins and JUnit**.

Object Oriented Programming • Microservices • Data Structures • Design Patterns • Cloud Computing
Mobile Development • Relational Databases (RDBMS) • Test Driven Development (TDD)

Languages: Java, Typescript

Web: HTML, CSS, Tailwind, React, NodeJS

Web Services: REST, API, Microservices, XML, JSON

Web/App Servers: Apache Tomcat

Frameworks: Spring MVC, Spring Boot, Spring Security, Spring Data, Spring Cloud, Spring REST, Hibernate, Junit, Flutter

Databases: PostgreSQL, MySQL, Cloud Firestore (NoSQL)

Design Patterns: Singleton, Factory, Observer, Proxy, Strategy, State, Dependency Injection

SDLC: Agile, Scrum, TDD

Tools: Apache Kafka, Jenkins, Docker, Kubernetes, Camunda, Redux, Maven, Gradle, Swagger, Git, GitHub, Slack, Jira, Postman, Figma, Npm, Confluence, IntelliJ, Visual Studio Code

Cloud: Amazon Web Services (AWS), Google Firebase (Cloud Firestore, Messaging, Authentication)

Platforms: Mac, Linux, Windows

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).

COLLA NETRIX INC., Neptune City, NJ, USA • 04/2023 – 01/2024

Colla Netrix, Inc., U.S.-based company publishing web and mobile apps for arts and culture communities.

Full Stack Java Developer (Remote)

Developed the backend APIs and contributed to application's front-end, creating an interactive art exploration platform.

- Migrated data from Cloud Firestore to PostgreSQL, upgrading the application from MVP to an enterprise-grade platform, improving query performance by 30%; ensuring scalability and enhancing overall application efficiency to support business growth.
- Implemented microservices for token-based transactions using Spring Boot, PostgreSQL, Docker and AWS evolving the application that manages user data, by enabling in-app currency (tokens) for rewards, transfers, and redemption for services.
- Configured AWS Lambda functions for serverless computing solutions to automate user account creation in the database during AWS Cognito post-signup triggers, leveraging Java, Spring Boot, AWS SDK, NodeJS to integrate APIs, improving user authentication workflows and onboarding processes.
- Developed dynamic and responsive front-end interfaces for the admin app using React and Tailwind CSS, integrating APIs and utilizing Redux for state management, resulting in efficient data handling and enhanced performance with smooth user experience.
- Implemented and optimized workflows using Camunda BPM for process automation, leveraging RabbitMQ, integrating with microservices architecture to streamline complex business processes and enhance efficiency across applications.
- Leveraged AWS S3 for scalable management of art-related media, enabling swift retrieval and storage of images, effectively sustaining a rapidly expanding user base.
- Integrated Jenkins CI/CD pipelines for streamlined deployments in Amazon EC2 for scalable compute resources alongside Amazon RDS, reducing release times by 40% and increasing overall development efficiency.

Technologies Used: Java, Spring Boot, Camunda, Microservices, NodeJS, React, Redux, PostgreSQL, Cloud Firestore, AWS S3, AWS Cognito, AWS Lambda, Docker, Jenkins, Jira, Git, Confluence, Amazon EC2, Amazon RDS

CELLAPP PVT. LTD., Kathmandu, Nepal • 06/2019 – 03/2023

CellApp Pvt. Ltd. crafts applications solutions to empower local governments in their governance and administrative tasks.

Java Developer

Developed the backend APIs and contributed to web application, creating comprehensive solutions for governance.

- Integrated backend services and database management for the Metropolitan City app using Spring Boot and RESTful web services; leveraging SQL database and Hibernate ORM for data access layer; enhancing data handling and service integration, boosting application performance and strengthening reliability across all modules.
- Implemented the Digital Certificate Issuance feature for the Metropolitan City app, consisting of 70+ different forms, document verification, and payment processing for legal document certification using Camunda; significantly reducing processing time resulting in efficient municipal services.
- Utilized Test-Driven Development (TDD) principles to ensure robust and reliable code, employing the JUnit and Mockito library for effective testing, achieving over 80% test coverage, leading to reduction in bug reports and significant improvement in code maintainability.
- Actively Involved in the Full Cycle of Software Development from Analysis through Design, Development, Integration and Testing phases; following Agile Software Development with Scrum methodology; ensuring robust operational feasibility and achieving 20% improvement in project efficiency.
- Implemented Jenkins within the CI/CD pipeline; meticulously managing the deployment process to ensure full compliance with platform regulations; accelerating deployment speed by 30%; leading to efficient and reliable software development processes.
- Optimized user interfaces in the Metropolitan City app by implementing Redux for efficient state management in React, significantly enhancing usability, maintainability, and performance, and resulting in scalable and high-quality code.

Technologies Used: *Java, Spring Boot, Hibernate, MySQL, TDD, React, Redux, Jenkins, JUnit, Mockito, Payment SDKs, Jira, Git*

ACADEMIC PROJECTS

Maharishi International University (2024) Framework Design: Developed a Java-based mini-framework using Reflections to mimic Spring Boot's functionality, incorporating custom annotations such as `@Service`, `@ConfigurationProperties`, `@Async`, `@Before`, `@After`, and `@Around`. The framework utilized various design patterns, including Singleton and Proxy, to manage object creation, method interception, and asynchronous processing, providing a lightweight alternative for enterprise application development.

Maharishi International University (2024) Enterprise Application: Developed a Course Registration System using Spring Boot, Hibernate, and JPA to create a RESTful API backed by MySQL; managing students, professors, and courses offered each semester, with functionalities for course registration and scheduling. Implemented comprehensive testing, including unit tests, to ensure robust functionality. Utilized Java, Spring Boot, Hibernate, JPA, and MySQL.

EDUCATION

Master of Science in Computer Science

(In progress via distance education; expected completion date 2026)

Maharishi International University, Fairfield, Iowa

Key Courses: *Enterprise Architecture, Design Patterns, Advanced Software Development, Cloud Computing*

Bachelor of Engineering in Electronics and Communication Engineering

Institute of Engineering, Pulchowk, Nepal

CERTIFICATIONS

AWS Certified Developer – Associate

https://www.credly.com/badges/9f05312f-1eab-4d0b-95d7-58f7f4ff3891/public_url