

# KUSH RAJ RIMAL

Fairfield, Iowa 52557 • +1-641-233-0939 • [rimal.kushraj@gmail.com](mailto:rimal.kushraj@gmail.com)  
<https://www.linkedin.com/in/kushrajrimal/>

## FULL STACK JAVA DEVELOPER

Software engineer with 5 years of professional experience in developing enterprise systems. Developed fin-tech software solutions for Payment System Operator (PSO)/Banks using Java, Spring, Hibernate, and PostgreSQL following Agile methodologies such as SCRUM and XP. Sound knowledge of system design and development, backed by having delivered high-quality software solutions by utilizing a diverse set of technical tools. Proficient in Java, Spring, Spring Boot, JavaScript, React and Docker.

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Object Oriented Programming (OOP) • Sustainable Software Design • Back-end Development • Design Patterns  
Relational Query Optimization • CI/CD • Containerization & Container Orchestration • Domain Driven Design •  
Microservices

**Languages:** Java, JavaScript

**Web:** HTML, HTML 5, CSS, jQuery

**Web Services:** REST, JSON, XML

**Web/App Servers:** Tomcat, Nginx

**Frameworks:** Spring, Spring Boot, React, React Native, Angular, JUnit, Mockito

**Databases:** PostgreSQL, MySQL, Oracle

**Design Patterns:** Strategy, Factory, Singleton, State, Proxy

**SDLC:** Agile, SCRUM, XP

**Tools:** Git, Docker, Kubernetes, Jenkins, Gitlab Runner, AWS, Apache Artemis/ActiveMQ, Redis, Kafka, ELK stack

**Platforms:** Linux, Windows

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## 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).

### NEPAL CLEARING HOUSE LIMITED, Kathmandu, Nepal • 12/2021 – 01/2024

Central Financial Clearing House in Nepal/Payment System Operator (PSO).

#### Software Engineer

Analyzed, designed, developed, tested and implemented software solutions for NCHL business requirements

- Led the development of revenue collection integration mechanism using Spring Boot and PostgreSQL for banks as per govt specifications, which encompasses around 95% of all online revenue collections across the country.
- Spearheaded the development of Electronic Cheque Clearance Automation, a mechanism to relay processed cheque data to banks thereby eliminating manual intervention by nearly 90% using Spring Boot, Oracle, and Apache Artemis.
- Played an active role in integrating new services in ConnectIPS (a PSO), using Spring Boot, React and PostgreSQL, also optimizing much of its customer-related APIs, with efficiency increase ranging up to 10x.
- Actively addressed the issues in the maintenance and expansion of NepalPayQR, a QR-based merchant payment service, using Spring, with it penetrating ~10% of the market share in 2 years.
- Collaborated in the development of Banks-NPI, a multi-tenant software for banks to expose their select services to their PSO/PSP clients using Spring Boot and PostgreSQL.
- Developed various reporting and data entry utilities as per internal requirements to facilitate office customer support using Spring, Spring Boot, JSP and Angular which improved overall office performance.
- Transformed the internal testing/deployment mechanism by initiating the implementation of CI/CD using Docker and Gitlab Runner thereby eliminating deployment hassles and smoothening the internal process.

**Technologies Used:** Java, Spring, Spring Boot, React, Angular, jQuery, PostgreSQL, Oracle, ActiveMQ, Artemis, Tomcat, Git, Gitlab Runner, Docker, Portainer, Redis, Redis Sentinel, OAuth, ELK Stack

### BRAINDIGIT IT SOLUTIONS, Kathmandu, Nepal • 12/2018 – 09/2021

Software Solutions Firm.

#### Software Engineer (07/2019 - 09/2021)

Translated client requirements into design and created web/mobile applications as solutions.

- Led the development of Foodieplace customer and merchant app, using React Native, enabling restaurants to go fully digital in all aspects from table-orders to kitchen to delivery and payment which greatly aided in bringing people physically back to restaurants after the pandemic hit.
- Upgraded an existing mobile pharmacy app, MedicoNepal, in React Native, to include e-shop features that enabled customers to order medications online, it being one of the 1st online pharmacy services in the country.
- Designed and developed the accounting module for Neema eSchool, a School Management System, encompassing all accounting statements (Journal, Ledger, Trial Balance, and P/L Statement) using Spring Boot and MySQL which was amongst the top 3 eSchool software systems in the country.

**Associate Software Engineer (12/2018 - 07/2019)**

- Assisted in the development of the futsal module of Ticketnshop, a multipurpose e-commerce SaaS, as per the initiated concept design using Spring Boot, which helped customers to book/pay for any futsal courts online.
- Played an active role in the development of Ticket Central, a multi-tenant event management/ticketing system using Spring Boot.
- Wrote SQL queries for reporting various in-house application statistics in a Codeigniter application.

**Technologies Used:** *Java, Spring Boot, React Native, MySQL, HTML, CSS, jQuery, Git, Codeigniter, PHP*

**ACADEMIC PROJECTS**

**Maharishi International University (2024) Autumn Framework:** A Java non-web framework mimicking various features of Spring Boot like automatic bean creation, dependency injection, task scheduling using cron, asynchronous method execution, profiles, and AOP. Utilized Java

**Maharishi International University (2024) University Connect:** A simple social networking site for university students with scope of threaded discussions under defined topics, event creation, polling and academic resource sharing. Utilized Java, Spring Boot, React, MySQL

**Maharishi International University (2024) AttendifyPro:** A software to primarily manage and report the attendance of students in an university under block/semester system along with the added feature of course registration mechanism. Utilized Java, Spring Boot, MySQL, Apache Artemis

**EDUCATION**

**Master of Science in Computer Science**

*(In progress via distance education; expected completion 08/2026)*

Maharishi International University, Fairfield, Iowa

Key Courses: *Enterprise Architecture, Advanced Software Development, Software Architecture*

**Bachelor in Computer Engineering**

Khwopa Engineering College (Purbanchal University), Bhaktapur, Nepal