

SAMIT BARAL

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SKILLS

Backend Development

Java, Spring, Spring Boot, Microservices, JSP, Thymeleaf, REST APIs

Java Libraries & Frameworks

Java IO/NIO, Apache HttpClient, Java Date-Time API, Java Mail, Jackson, Gson, Log4j, Lombok

Frontend Development

JavaScript, React.js, React Router, TanStack Query, jQuery, Bootstrap, ReactStrap

Databases

MySQL, PostgreSQL, MongoDB

Cloud & APIs

Google Maps APIs, Payment Integration (Stripe, PayPal), Google Cloud

Tools & Technologies

Docker, Git, GitHub, GitLab, Postman

Other Technologies

Python, Flutter, Dart, WordPress

PROFESSIONAL EXPERIENCE

Software Engineer

Nepal Clearing House Limited, Kamaladi, Kathmandu

February 2025 – August 2025

Projects

Cross Border Payment System (RPS – Nepal–India Integration)

- Contributed to the implementation of **Retail Payment Switch (RPS) cross-border payment features** enabling transactions between Nepal and India through integration between **NCHL and NPCI (India)**.
- Developed **session-based transaction summary reporting** with search functionality for analyzing cross-border payment sessions.
- Implemented **PDF-based report generation** for downloading cross-border transaction summaries.

ConnectIPS BankCentral (BFI Aggregation Portal)

- Contributed to the development of an aggregation portal enabling BFIs to access multiple NCHL services including MMS, CorporatePay, connectIPS Retail, and RTGS through a unified platform.
- Implemented **Merchant Discount Rate (MDR) management features**, including schema creation, profile configuration, and hierarchical assignment across network, acquirer, MCC, and merchant levels.
- Developed **surcharge configuration and management modules** supporting flat and percentage-based

charge structures with profile-based assignment.

- Integrated **MDR and surcharge calculations into transaction processing, settlement reconciliation, and reporting systems** at the transaction level.

Merchant Management System

- Contributed to the development of a merchant platform supporting **merchant onboarding, account management, configuration, settlement, and reporting**.
- Implemented backend features for **MDR and surcharge setup, assignment, calculation, and reporting** for merchant transactions.
- Developed **Fee and Charge Processing (FCP) reporting modules** with filtering based on date range, network, and session-level transaction data.
- Participated in **refactoring merchant enrollment workflows**, migrating legacy imperative code to an **ActiveMQ-based asynchronous architecture** to improve system scalability and maintainability.

Java Developer

Ipay Remit, Gairidhara, Kathmandu

October 2022 – July 2025

Projects

Human Resource Management System

Spring web (Monolithic), Spring Security, JSP, Firebase, MySQL, jQuery, and several JS libraries.

- Developed a robust user authentication system with **IP-based and home access controls**, integrating Spring MVC and Apache HTTP Client for efficient communication across application components.
- Enhanced front-end responsiveness using jQuery AJAX, and implemented **Firebase Cloud Messaging (FCM)** for targeted notifications to administrators, HODs, and employees.
- Streamlined task, leave, late, training, and shift management by designing **REST APIs** and updating scrum tasks with completed work and images using **Java NIO** for efficient I/O handling.
- Built dynamic calendar and scheduling systems for holidays, interviews, and departmental changes, improving planning and administrative workflows.
- Developed comprehensive reporting dashboards with monthly summaries, activity logs, and employee-specific CSV salary uploads for transparent payroll management.

FOREX Japan

Spring web, Spring Security, JSP, MySQL, and Bootstrap.

- Facilitated the seamless creation of customer transactions, ensuring a streamlined and user-friendly process.

Admin panel:

- **Managed exchange rates for multiple countries** and implemented **SOAP-based transaction APIs**, collaborating with third-party services to ensure **accuracy, security, and optimized financial operations**.
- Added **CMS features** (FAQs, testimonials, banners, news, customer feedback) and **implemented role-based admin and staff management**, maintaining a **secure, organized user hierarchy** and enhancing the company's **online presence**.

Mobile Application (Android/iOS)

- **Supervised the development of ForexJapan mobile application** (Android/iOS) with InfiCare, managing the project from **design to App Store/Play Store launch** and ensuring a **smooth, user-friendly experience**.
- Conducted **comprehensive testing** on each build and documented **user flows, account creation, transactions, and KYC processes** to streamline onboarding and usability.

eKYC

Spring boot, Spring security, Spring AMQP, Firebase, MySQL

- Designed and implemented a **comprehensive REST middleware application** with **Spring Boot**, integrating **diverse content types (text, images, videos)** via third-party APIs and **seamlessly delivering them to mobile applications**, enhancing **user experience and content accessibility**.
- Implemented **RabbitMQ** for asynchronous messaging and **deeplink functionality** to facilitate video capture during eKYC, **streamlining onboarding** and improving overall workflow efficiency.

Viamerica - I Pay Remit Admin Panel

Spring Boot, Spring Security, Spring Integration, Microservices, MySQL, React JS. Bootstrap

- Admin panel for remittance service utilizing React.js as front-end interface implementing Spring boot microservices
- Conducted thorough **testing and gathered feedback** for the user portal, documenting transaction workflows to enhance system reliability and user experience.

Quality Analyst

Ipay Remit, Gairidhara, Kathmandu

October 2019 – February 2020

Roles

- Conducted **comprehensive QA and testing** of web applications, identifying and documenting **bugs and issues** to improve **user experience**.
- Collaborated with developers to ensure **timely bug fixes** and system improvements.
- Prepared **detailed documentation** of UI functionalities, testing methodologies, and API endpoints using **Postman**.

Full stack Developer – Freelance

Lakeside Gurkhas

Canberra, Australia [September 2025 – Ongoing]

React, React Router, TanStack Query, Java, Spring, Spring Boot, REST APIs, MySQL, Google Maps APIs, Stripe API, PayPal API, Google Cloud VM

- Designed and developed a **full-stack restaurant ordering platform** allowing customers to browse menus, manage cart items, and place delivery or pickup orders.
- Implemented **secure payment processing** using **Stripe and PayPal APIs**, integrating checkout sessions, payment validation, and order confirmation workflows.
- Integrated **Google Maps services** including place search, address autocomplete, geocoding, and distance matrix APIs to support **delivery location search and distance-based delivery validation**.

- Deployed the production application on a **virtual machine hosted on Google Cloud**, configuring server environment and application hosting.

Lakeside Gurkha Staff Monitoring System

Canberra, Australia [August 2023 – April 2024]

Spring Boot, Spring Security, HTML, Thymeleaf, jQuery, and MySQL.

- Developed a **staff attendance and workforce management system** tracking login IP addresses and capturing staff images using JavaScript MediaDevices for identity verification.
- Implemented an **automated payroll module** generating payslips based on work designation, working hours, break times, and overtime calculations.
- Built **attendance and schedule visualization tools** using **jQuery FullCalendar** to monitor staff activity logs and workforce schedules.

Avatar

Canberra, Australia [August 2023 – January 2024]

Spring Boot, Spring Security, HTML, ThymeLeaf, jQuery, MySQL and Spring MongoDB.

- Developed a **nurse monitoring application** to track staff across multiple facilities, capturing **incoming/outgoing times, service periods, breaks, and task assignments by role** (RN, AIN, EN).
- Implemented **automated performance reporting** and dashboards to support **management decision-making** and workforce efficiency.

NurseCare

Canberra, Australia [June 2024 – November 2024]

Spring Boot, Spring Security, HTML, ThymeLeaf, jQuery, MySQL and Spring MongoDB.

- Built a **web application for managing nurse and patient information and documents**, supporting **multiple datasources** (MySQL and MongoDB).
- Developed **dynamic, adaptive forms** programmatically using JavaScript for efficient data entry and responsive user experience.
- Streamlined **document management and reporting**, enhancing accuracy, accessibility, and operational efficiency.

OTHER PROJECTS

Sound Emotion Recognition

Python, Machine Learning

- A web-based application using **streamlit** to check human emotions
- Use of **SVM and LSTM algorithm**
- **detect emotions for live audio capture within browsers as well as for recorded voice** files through voice file uploading
- Detect four human emotions: **angry, calm(neutral), happy, sad**

Movie-Ticket Booking System

C++

- Console based application to show the seats available using patterns

- Buy/Cancel/Update ticket details
 - File handling approach to keep the records for the application
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EDUCATION

Tribhuwan University

(BE in Electronics, Communication and Information Engineering)

November 2018 – May 2023

Trinity International College

July 2016 - July 2018

Kamyak School

April 2006 - June 2015

REFERENCES

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