

Utsav Kattel

Backend Developer

 Kathmandu

 [9804092764](tel:9804092764)

 utsavkattel00@gmail.com

 [utsavkattel](#)

 [utsavkattel000](#)

Summary

Experienced Java Developer specializing in designing and building scalable, high performance backend systems. Strong background in the Java ecosystem and Spring Boot, with hands-on experience in database optimization, API design, and integration of complex external services, including transaction-driven and high volume systems. Collaborative problem-solver, experienced in shaping solutions from architectural design through implementation and reliable production deployment.

Skills

Language Java, SQL	Frameworks Spring Boot, Java Android	Databases & Caching PostgreSQL, MySQL, Redis
Tools & Platforms Git, Firebase, Google Analytics, Stripe	Message Brokers & APIs RabbitMQ, STOMP, Websocket, RestAPI	Cloud & Devops Docker, CI/CD, Linux, SSH

Experience

Varosa Technology

2025 March - Present

Java Developer

- **Developed a high-data-intensity application through core design and production rollout**, leveraging Liquibase for automated, version-controlled database migrations to ensure reliable and consistent schema deployments across environments.
- **Designed and implemented real-time communication features**, including live messaging using STOMP over WebSockets, and a scalable messaging flow.
- **Built advanced reporting and analytics pipelines** using PostgreSQL functions, CTEs, materialized views, and optimized joins, significantly reducing report generation time and improving performance for data-heavy operations.
- **Implemented bulk data export workflows** capable of processing and exporting 70k+ user records to Excel using Apache POI, backed by a queue-based architecture with RabbitMQ to ensure reliability and non-blocking execution with real-time progress visibility to users.
- **Integrated RabbitMQ for asynchronous and event-driven processing**, improving system scalability, fault tolerance, and responsiveness across long-running and high-volume operations.
- **Integrated payment system using Stripe**, implementing secure job-portal payments and Stripe Connect to support a freelance marketplace with multi-party payouts.
- **Established a comprehensive unit testing suite**, reducing post-deployment bugs and improving long-term code reliability, maintainability, and team confidence during releases.
- Engineered an automated **Redis caching** and eviction lifecycle in Spring Boot using JPA event listeners, optimizing endpoint performance and driving response times down from seconds to 20ms.
- Refactored a giant government **monolith into microservices**, implementing Eureka discovery and Gateway load balancing for multi-instance resource servers, while routing stateful WebSocket messaging independently to bypass gateway bottlenecks.

NepMax Pvt. Ltd.

2024 February - 2025 March

Java Developer

- Joined an existing enterprise application in mid-development phase and contributed during the transition from feature development to **production stabilization and maintenance**.
- Integrated **real-time notifications using Firebase** to deliver live updates for internal users without impacting core transactional flows.
- Performed extensive **production bug fixing and root-cause analysis**, resolving issues related to scheduling, data consistency, and edge-case workflows.
- Refactored existing service-layer code to improve **error handling, maintainability** in a long-running production system.

Projects (Academic)

Emergency RoadSide Assistance System

- Designed and developed an Android application for users to request roadside assistance for vehicle-related issues such as refueling, flat tires, towing, and emergency breakdowns using Android Java.
- Built a dedicated Android application for riders/service personnel to receive rescue requests, accept jobs, navigate to user locations, and complete service tasks using Android Java.
- Developed a Spring Boot-based backend system supporting both mobile applications, including a web portal for service providers to create and manage riders, and an admin dashboard to manage providers, monitor operations, and control system workflows.

Additional Web Applications (Spring Boot, Thymeleaf, MySQL)

- Developed multiple MVC-based web applications including a flight booking system, digital redeem code platform, and product inventory system, implementing authentication, booking workflows, and administrative dashboards.

Education

Tribhuvan University	2021- 2026
Bachelor in Computer Application	Bachelor

Certification

<u>Advanced Java Development Certificate</u>	Broadway Infosys
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