

SANDIP CHAPAIN

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PROFILE

A backend development enthusiast with a good understanding of Java, OOP concepts, Databases and currently working on backend development using Spring Boot. I have Strong problem-solving, analytical and good communication skill and eager to apply these skills in real-world projects.

EDUCATION

Everest Engineering College, Lalitpur

March 2021-2025

Bachelor of Engineering in Information Technology (Pokhara University)

SKILLS

- Core Java, Spring Boot, Exception Handling, REST API, DBMS
- Spring Boot Topics: Spring MVC, Data JPA, Validation, Spring Security, Actuator, Logging
- OOP Principles, Problem Solving, Data Structures and Algorithm
- Tools: MySQL, Git & GitHub, Postman, IntelliJ IDEA, Notion, Docker
- Others: Teamwork and Strong Communication, Basic frontend

PROJECTS

Rear-End Collision Detection (final year project) [Link](#)

- *Tech Stack: Python, OpenCV, YOLOv8, DeepSORT, NumPy, Multithreading*
- Built a real-time system to detect rear-end collision risks and classify incoming vehicles into safety zones providing visual and audio alerts based on speed and position.

Inter-College Event Management System [Link](#)

- *Tech Stack: HTML, CSS, JavaScript, PHP, MySQL*
- Built a web platform for colleges within university to manage and organize events, including student registration, participation, role-based dashboards and authentication.

Blog Application Backend [Link](#)

- *Tech Stack: Java, Spring Boot, Spring Data JPA, MySQL, JWT*
- Built a RESTful backend for a blog platform with full operations on posts, users, categories and comments.
- Implemented JWT-based authentication and role-based authorization to secure the APIs.

INTRESTS

- Problem Solving and Backend Development
- keeping up with latest tech trends
- Exploring AI technologies and integrating them with Spring Framework