

BIKRAM KHATRI



PROFILE

Computer Science enthusiast with a deep passion for programming, software engineering, and related technologies who loves to build secure backends with Spring Boot and Also enjoys Python (Django), JavaScript, and C/C++. Always learning, exploring, and solving problems with code.

CONTACT DETAILS

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📄 github.com/parichakra

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📍 Balkumari 9 , Lalitpur , Nepal

PERSONAL INFORMATION

Date of birth: **2003**

Citizenship: **Nepal**

Marital Status: **Single**

Origin : **Birendranagar Surkhet**

Languages: **Nepali** (native),
English, Hindi

SKILLS

- Java, Spring boot, Spring Security
- Django, Numpy, Pandas
- SQL, MySQL, SQLite
- JavaScript, C, C++
- PostMan, Docker, kubernetes
- RabbitMQ, Kafka
- git and github, gitlab

PROJECTS

Employee Management System (*Learning Project*)

◇ Java, Spring Boot, Spring Security, OAuth2, MySQL, JWT

- Designed developed custom OAuth2 authorization server with Spring Security and Implemented role based access
- Secured REST APIs for employee CRUD operations with OAuth2 scopes permissions
- Configured password grant, refresh token, and revocation flows for secure access
- Containerize application with docker and Kubernetes

📄 github.com/parichakra/employee-management-system

E learning Platform (*Academic Minor Project*)

◇ Django, React based elearning platform

- Implemented real time video conferencing with WebRTC.
- Created recommendation system with pandas and numpy
- Integrated the eSewa payment gateway to streamline the payment process.
- Developed key features like authentication and review and rating system

📄 github.com/parichakra/E-Learning-Platform

Adaptive Traffic Light Control Using MARL to Minimize Intersection Congestion (*Academic Major Project*)

◇ Python , Djanog, SUMO, TRACY

- Developed traffic signal control models using MATD3, DQN, and MADDPG to minimize congestion and waiting time.
- Simulated real Kathmandu city junctions (Jadibuti, Koteshwor, Tinkune, Kausaltar, Tinkune-Baneshwor) in SUMO to test and compare model performance.
- Built an admin dashboard to monitor junction data such as average queue length and waiting time.

WORK EXPERIENCE

Java Developer Intern at *Techart Trekkies* **April 2025- Aug 2025**

Worked on a monolithic Spring Boot application with Spring Security integration, contributing to real-world educational software solutions. Developed core modules including user management, role-based access control, and data processing components while following industry best practices. <https://techarttrekkies.com/> Key contributions:

- Implemented authentication / authorization modules using Spring Security
- Designed and developed REST APIs for educational content management
- Optimized database operations using Spring Data JPA with MySQL
- Participated in code reviews and agile development processes
- Resolved production bugs and improved application performance

Volunteer at *Nepal Open Source Club*.

2021- present

Nepal Open Source Klub(NOSK) is an open community club where we discuss Open Source Culture, Free and Open Source Software (FOSS), Programming and encourage learning in public.

EDUCATION

Bachelore of Engineering in Information technology (BEIT)

Pokhara University.

8th Sem Running

Nepal College of Information Technology (NCIT)

REFERENCES

Mr Madan Kadariya [*HOD - IT*] Nepal college of Information Technology

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