

Lotus Kshetri

Java, AI/ML, Python

kshetri374@gmail.com | +977-9765410748 | LinkedIn: [lotuskshetri](#) | GitHub: [lotuskshetri](#)

EXPERIENCE

CITYTECH

Kamaladi, Kathmandu

Associate Software Engineer

Jan 2026 – Present

- Leading backend implementation of the new Merchant Portal, contributing to architecture decisions and service design across the platform.
- Developed PostgreSQL functions for settlement processing and wrote optimised queries for financial reporting on high-volume transaction data.
- Managed live database changes on production and staging environments; triaged and resolved live system issues to maintain platform stability.
- Collaborated closely with product and frontend engineers to scope and deliver features while maintaining core service repositories.

Software Engineering Trainee

June 2025 – Dec 2025

- Owned cross-service feature development with involvement in system design, data model changes, and repository-level refactoring affecting production flows.
- Handled field migrations, audit logging, and query behaviour changes in core modules with direct impact on platform data integrity.

Java Backend Intern

April 2025 – July 2025

- Wrote PostgreSQL functions for merchant onboarding data population and assisted with platform schema tasks.
- Documented REST APIs across portal services and wrote reactive unit and integration tests for payment engine flows.

AMNIL

Chabahil, Kathmandu

AI Intern

Dec 2024 – Feb 2025

- Researched AI concepts through academic and industry papers.
- Worked on speech processing, document translation, and AI-driven recommendations.
- Developed liveness detection models and conducted data analysis.

AIESEC in Kathmandu

Kathmandu

Head of Marketing

Feb 2023 – Feb 2024

- Led the marketing department for two semesters consisting of up to 10 members
- Digital and physical campaign planning and execution for sales and branding

CAB-Tech

Chabahil, Kathmandu

Full Stack Developer mentee

May 2023 – July 2024

- College MIS System using **Laravel**
- Integrating Various Module in the application

SKILLS

Programming: Python, JavaScript, HTML/CSS, SQLstreamlit, FastAPI, Flask, Pytorch, ScikitLearn, Java, Micronaut Project Reactor

Tools: Figma, PyCharm, Jupyter Notebooks, Git, IntelliJ, Datagrip

Soft skills: Leadership, Team Handling, Marketing, Public Speaking, Sales & Pitching

PROJECTS

Advanced Chatbot with Knowledge Base

- Designed a user-friendly GUI in streamlit with scrollable chat history, ensuring smooth navigation and dynamic updates.
- Used chunking, embedding models, vector database with openAI api.
- Maintained context and history for post conversation analysis with FAST-API as backend.

Vehicle Collision Detection System

- Transfer learning and fine tuning Faster R-CNN model with two phases for vehicle detection and collision detection
- Implementation with FastAPI and streamlit for concurrent detection with multiple inputs and notification alert with twilio

EDUCATION

CAB-Tech

Chabahil, Kathmandu

B.Sc in Computer Science and Information Technology

Graduated Aug 2025

- o **Concentrations:** Computer Science
- o **Related Coursework:** Data Structures & Algorithms, Object Oriented Programming, Web Technology, Image Processing, Statistics, Machine Learning, Cryptography, Computer Network
- o **Non-Credit Coursework:** Python, DevOps (jenkins, pipeline, linux, Ansible, webhost, Docker)