

LAMIN TAMANG

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Education

Nepal College of Information Technology (NCIT)

Bachelor in Software Engineering

December 2022 – Present

Balkumari, Lalitpur, Nepal

Relevant Coursework

- Data Structures
- Algorithms Analysis
- Artificial Intelligence
- Mathematics for Computer Science
- Machine Learning
- Database Management
- Data Science

Experience

Hackathons

2024 – 2025

Participant

kathmandu, Nepal

- Participated in multiple hackathons, collaborating with diverse teams to tackle real-world challenges within tight deadlines.
- Developed innovative solutions, focusing on areas such as AI, machine learning, and full-stack development.
- Contributed to designing user interfaces, optimizing algorithms, and creating scalable solutions, often using technologies like Python, JavaScript, and various frameworks.
- Recognized for creativity and problem-solving skills in high-pressure environments, delivering impactful prototypes and solutions.

Projects

Clear-Path | *Traffic Congestion Prediction, Dynamic Routing, Python, Machine Learning*

January 2025

- Developed an intelligent traffic solution to predict congestion levels using a machine learning model trained on real traffic and weather data.
- Simulated dynamic route planning between locations using OpenStreetMap and OSMnx, optimizing based on road distance.
- Implemented a roadblock detection mechanism with automatic rerouting via graph-based shortest-path algorithms.
- Built a modular system for real-time navigation, traffic prediction, and smart mobility applications.

Scam Aggregator | *Community-Driven Database, JavaScript, CSS, HTML, React*

September 2024

- Developed a platform for reporting scams to build a community-driven database, raising awareness and protecting individuals.
- Enabled submission of detailed reports, including scam descriptions, types, and relevant links, to raise awareness and protect individuals.
- Implemented features for users to report fraudulent activities and access verified scam information.
- Utilized Node JS for the backend, creating a scalable and user-friendly interface for data reporting and retrieval.

CRUD Application | *Java, Swing, JDBC*

October 2024

- Designed a user-friendly graphical user interface (GUI) using Java's Swing framework for seamless navigation and functionality.
- Integrated a relational database using Java Database Connectivity (JDBC) to enable secure and efficient data storage and retrieval.
- Implemented SQL-based operations to ensure accurate data handling across all CRUD functionalities.

Technical Skills

Languages: Python, Java, C, C++, HTML/CSS, JavaScript, SQL

Developer Tools: VS Code, Eclipse, Google Cloud Platform, PyCharm

Technologies/Frameworks: Linux, GitHub, MongoDB, Figma

Extracurricular

Innovative Problem Solver

2024–Present

Creative Contributor

Multiple Projects and Hackathons

- Consistently developed creative and unique ideas to solve complex challenges in projects and hackathons.
- Proposed innovative solutions that enhanced project functionality, user experience, and overall impact.
- Collaborated with cross-functional teams, contributing fresh perspectives and approaches to problem-solving.