

ROSHAN CHAUDHARY

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PROFESSIONAL SUMMARY

Software Engineering graduate with hands-on experience building full-stack and AI-powered web applications. Proficient in the MERN stack (MongoDB, Express.js, React.js, Node.js), REST API integration, and JavaScript (ES6+). Demonstrated ability to collaborate under pressure through hackathon wins and team projects. Eager to contribute to a forward-thinking team while continuously learning new technologies.

TECHNICAL SKILLS

Frontend: React.js, HTML5, CSS3, JavaScript (ES6+), TypeScript, Responsive Web Design

Backend: Node.js, Express.js, Django, FastAPI, REST API Design & Integration

Databases: MongoDB, PostgreSQL, MySQL, SQL

Tools & Platforms: Git, GitHub, Docker, AWS

AI / ML: Python, Machine Learning, Deep Learning, Computer Vision, CNNs, PyTorch, TensorFlow

Other Languages: C/C++, Java

PROJECTS

Grade Management System

Dec 2023 – Feb 2024

MERN Stack (MongoDB, Express.js, React.js, Node.js) · JWT Authentication · REST API

- Built a full-stack grade management system using the MERN stack with JWT-based authentication, CRUD operations, and role-based access control for students and teachers — directly applying MongoDB, Express.js, React.js, and Node.js skills.
- Designed and consumed RESTful APIs for seamless frontend-backend communication, following industry-standard practices for API integration.
- Implemented responsive UI components in React.js to ensure usability across device sizes, applying core HTML5, CSS3, and JavaScript (ES6+) principles.

Pneumonia Detection System

Dec 2025 – Feb 2026

React.js · FastAPI · PyTorch · OpenCV

- Developed a full-stack web application with a React.js frontend and FastAPI backend, integrating REST API calls to serve a CNN model that detects pneumonia from chest X-rays with 98 % validation accuracy.
- Gained practical experience in debugging model inference pipelines and collaborating across frontend and AI components within a team setting.

Automatic Number Plate Recognition (ANPR)

Nov 2024 – Feb 2025

Django · React.js · YOLO · REST API

- Built a real-time vehicle tracking system with a React.js dashboard and Django REST API backend, achieving 95 % plate detection accuracy and significantly reducing manual parking management effort.
- Practiced debugging and problem-solving skills while integrating computer-vision inference results with a responsive web frontend.

Weather Forecast Web Application

Dec 2022 – Feb 2023

HTML5 · CSS3 · JavaScript (ES6+) · Public Weather API

- Created a responsive weather app using vanilla HTML5, CSS3, and JavaScript (ES6+), consuming a public REST API to display real-time temperature, humidity, and conditions for any searched city.
- Applied responsive web design principles to ensure a consistent experience across desktop and mobile viewports.

EDUCATION

Nepal College of Information Technology

Oct 2021 – Apr 2026

Bachelor of Software Engineering · Kathmandu, Nepal

ACHIEVEMENTS

1st Place – NOSKATHONLITE Hackathon (Team Rocket)

Jan 2025

- Secured first place among 50 teams at the hackathon organized by Nepal Open Source Klub (NOSK), building an innovative solution within a 24-hour window.
- Demonstrated strong teamwork, communication, and rapid problem-solving as one of four developers — directly aligning with the collaborative and fast-learning qualities sought in this role.