

# Kiran Dhungana

Lalitpur, Nepal

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LinkedIn — GitHub

Fiverr — Upwork

Play Store

## Profile

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Computer Engineering graduate (2025) with strong foundation in machine learning, computer vision, and scalable software systems. Experience includes 60+ freelance projects, startup development, and production-level engineering. Interested in intelligent systems, real-time applications, and distributed computing.

## Education

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**Bachelor in Computer Engineering** **2025**  
Tribhuvan University, Nepal

## Experience

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**Software Engineer (Senior), The Gems Tech Company** **2025 – Present**

- Lead development of scalable production-level systems ensuring reliability and performance.
- Design backend architecture and optimize APIs for efficiency and low latency.
- Improve system performance through code optimization and deployment strategies.
- Mentor junior developers and enforce coding best practices.

**Freelance Software Developer (Fiverr & Upwork)** **2022 – Present**

- Delivered 60+ full-stack projects across web, mobile, and backend systems.
- Developed APIs, dashboards, and scalable client-focused applications.

**Software Engineer, Codemantra** **2024 – 2025**

- Contributed to web application development in a US-based startup environment.
- Worked on deployment, debugging, and feature development.

**Co-Founder & Developer, GlobalSquare** **2022 – 2024**

- Co-developed software solutions for international clients.
- Participated in system design, development, and deployment.

## Academic Projects

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**Real-Time Multi-Traffic Violation Detection System (YOLOv8 + OCR)**

- Built a real-time computer vision system for detecting traffic violations.
- Used YOLOv8 for object detection and CNN-based OCR for number plate recognition.
- Applied Canny Edge Detection and Hough Transform for lane detection.

- Achieved 97.93% OCR accuracy.

### **RaiseForGood – Donation Platform with Recommendation System (2023)**

- Developed a fundraising platform with NLP-based content recommendation.
- Implemented similarity using CountVectorizer and cosine similarity.
- Modeled user preferences to rank relevant campaigns dynamically.
- Integrated geolocation (Haversine) and secure eSewa payment system.

## **Professional Projects**

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### **Mobile Application Development**

- Developed 10+ mobile applications independently.
- One application achieved 10,000+ downloads on Play Store.

### **Restaurant Management System**

- Built system with role-based access, inventory, and reporting modules.
- Implemented QR-based food ordering system.

## **Technical Skills**

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**Languages:** Python, JavaScript, Dart, PHP, SQL, C/C++, HTML, CSS

**Frameworks:** React.js, Next.js, Flutter, Node.js, Express.js, Laravel

**Machine Learning:** YOLOv8, OpenCV, OCR, CNN

**Tools:** Git, VS Code, Android Studio, Postman

## **Leadership**

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### **Vice President, Electronics & Computer Club**

- Organized technical event with 200+ participants.
- Led a team of 20 members in workshops and activities.

## **Research Interests**

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Machine Learning, Computer Vision, Real-Time Systems, Distributed Systems, Cloud Computing