

Prabhat Bhusal

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Education

Kathmandu University

Nov. 2020 – Jun. 2025

Bachelor of Engineering in Geomatics

- Coursework: Java, Python, PostgreSQL, JavaScript, Machine Learning, LiDAR, Drone Surveying, GIS.
- **Published author** on spatial optimization and road condition monitoring using sensors.

Skills

- **Languages:** Python, JavaScript, TypeScript, SQL (PostgreSQL), HTML/CSS,
- **Frameworks:** Next.js, React, Django, Tailwind CSS,
- **Certification:** Web Development MasterClass(Source:Udemy), Python Django Course(Source:Udemy)
- **Tools:** Git, GitHub

Experience

Istemlab Pvt Ltd

Mar. 2025 – Oct. 2025

Frontend Developer (Next.js)

Chakupat, Lalitpur

- Developed a comprehensive responsive website for a commercial site portal.
- Utilized Next.js, TypeScript, and Tailwind CSS to build high-performance, mobile-first user interfaces.

Geomatics Engineering Society

Mar. 2023 – Sep. 2024

Frontend Developer (React.js)

Dhulikhel, Kavre

- Developed a comprehensive responsive website for a Departmental Club.
- Used Reactjs,Tailwind CSS to build , mobile-first user interfaces and Used Context-api for light and dark mode.

Danson Solution / Chimpvine

June 2023 – Sept. 2023

Frontend Developer (React)

Kathmandu, Nepal

- Contributed to the development of an a gamified educational website.
- Transformed Figma prototypes into reusable React components while maintaining pixel-perfect design.

Projects

Shot Classification System | Python, OpenCV, YOLOv8

April.2026

- Wrote Python scripts to classify padel game shots from video footage using YOLOv8 for object detection and OpenCV for frame processing.
- Detected and labeled shot types by tracking ball and player movements across video frames using the pre-trained YOLO model on the RTX-5070 in house graphics card.

Websites for commercial business | Next.js

Mar 2025 – Oct. 2025

- Developed US-based consumer and business websites covering garage services, roadside assistance, maintenance and repair services,and lawning and mowing services.
- Reusable Next.js components are implemented for efficient client-state management.

Road Condition Monitoring | Python, LiDAR, Deep Learning

Nov. 2024 – Apr 2025

- Final year thesis project detecting potholes and road cracks using Iphone 14 pro Lidar and also Compared between Models like (Random-Forest,Point net++, DGCNN).
- Implemented Deep Learning models to automate the monitoring of infrastructure conditions.

Full-Stack Food Delivery & Position Locator | React.js, Django, Postgresql,Leaflet

Jan. 2024 – May 2024

- Developed a location-based web app using React for UI, Django for serving the frontend and handling login authentication, and PostGIS for spatial database management.

- Integrated Leaflet for interactive mapping with PostGIS spatial queries and Axios for REST API data fetching.