

Netra Bahadur Budhathoki Magar

Full-Stack Developer

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PROFILE

Full-Stack Developer with 2+ years building end-to-end web solutions across front-end and back-end, with particular strength in React and Next.js interfaces and UI implementation. Builds RESTful APIs and relational and NoSQL data models, working primarily in JavaScript and TypeScript with working knowledge of Python. Owns features from design through deployment and values well-structured, documented, maintainable code. Brings prior experience mentoring developers, having led web development training cohorts.

TECHNICAL SKILLS

Languages	JavaScript, TypeScript, SQL
Frontend	React, Next.js, HTML, CSS, Tailwind CSS, UI Implementation
Backend	Node.js, Express, REST APIs, Prisma (ORM), JWT Authentication, Multi-Tenant Architecture
Databases	PostgreSQL, MySQL, MongoDB
Practices	Database schema design & normalization, API security, data encryption, Agile/Scrum
Tools	Git, GitHub, Linux, Postman
Familiar	Python, Dart, Flutter, Machine Learning (classification, TF-IDF)

EXPERIENCE

Full-Stack Developer <i>CANTech Pvt. Ltd.</i>	Aug 2023 – Present <i>Kathmandu, Nepal</i>
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- Build and maintain front-end and back-end for production SaaS products using React, Next.js, Node.js, TypeScript, Express, and PostgreSQL with Prisma.
- Design and implement user interfaces, delivering features end-to-end from design through deployment.
- Design relational schemas with per-tenant data isolation, authentication, and authorization.
- Deployed and maintained web applications on Linux VPS and shared hosting (NestNepal).
- Collaborate with stakeholders in iterative, Agile-style cycles, balancing independent ownership with small-team delivery.

Instructor – Web Development <i>Dursikshya Education Network Pvt. Ltd.</i>	Nov 2022 – Jul 2023 <i>Kathmandu, Nepal</i>
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- Led a structured web development curriculum (HTML, CSS, JavaScript) for student cohorts, taking them from fundamentals to building functional, interactive interfaces.
- Designed lesson plans and hands-on coding exercises, mentoring and guiding learners individually to develop practical skills.

SELECTED PROJECTS

BhojanX Restaurant POS & Inventory SaaS	<i>React, Node.js, TypeScript, Express, PostgreSQL, Prisma</i>
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- Designed and built a point-of-sale platform with subdomain-based tenant routing, owning both API and data layers.

- Implemented a master/tenant database architecture with per-tenant connection pooling and tenant-resolver middleware for scalable multi-tenancy.
- Engineered PostgreSQL schemas with partial unique indexes, CHECK constraints, and triggers to enforce integrity at the database level.
- Implemented layered security including JWT authentication with separate access and refresh secrets, AES-256-GCM field encryption, environment validation, and structured logging with sensitive-data redaction.

Open Thoughts Nepal | Content-Publishing Platform

React, Django, DRF, MySQL

- Built the React (Vite) single-page front-end, including an Axios layer with queued automatic token refresh to deduplicate concurrent 401 responses, DOMPurify HTML sanitization, a rich-text editor, and client-side image compression before upload.
- Contributed to backend architecture decisions, including the JWT authentication scheme (token rotation and session invalidation) and the role-based access model.

Chikitsa | Multi-Clinic Healthcare Management SaaS

React, Node.js, Express, MongoDB, MySQL, JWT

- Built React interfaces for appointment booking, EMR entry, billing, and reporting dashboards using Ant Design, with charting and PDF invoice generation.
- Developed RESTful backend modules for appointment scheduling, electronic medical records (EMR), and pharmacy and lab billing on a Node.js and Express API.
- Implemented authentication and role-based access control using JWT with multiple guarded user roles and server-side session validation for token revocation.

Smart Gate Access System | License-Plate & Face Recognition (IoT)

Python, OpenCV

- Built a dual-recognition access-control system in which either a detected vehicle license plate or a recognised face triggers gate opening through IoT-connected hardware.
- Developed the computer-vision pipeline in Python using OpenCV and machine-learning models for plate detection and facial recognition.

Post-Earthquake Prioritisation | Machine-Learning Pipeline (MSc Project) *Python, scikit-learn, pandas*

- Built a multi-stage machine-learning pipeline for building damage prediction and recovery prioritisation on the 2015 Nepal earthquake survey dataset.
- Applied scikit-learn models with district-level spatial cross-validation to reduce geographic data leakage.

EDUCATION

MSc Data Science and Computational Intelligence

2025 – 2027 (Expected)

Coventry University, UK

BSc (Hons) in Computing – First Class Honours

2020 – 2023

Coventry University, UK

LANGUAGES

English (Professional) | Nepali (Native) | Hindi (Conversational) | Japanese (Basic)