

ASHWIN BARAL

Web GIS Developer (MERN stack + Spatial Systems)

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PROFILE SUMMARY:

I work with data-driven web applications with a focus on real-time systems and geospatial visualization. With a background in Geology, I specialize in working with spatial data, interactive mapping, and location-based services.

EDUCATION :

Tri-Chandra Multiple Campus (2020-2025)

Kathmandu, NP

Bachelor's of Science, Geology

PROFESSIONAL SKILLS:

Core Skills :

- HTML5
- CSS3
- JavaScript (ES6+)
- Version Control (Git)
- GeoSpatial Data Handling (GeoJSON, coordinate systems, spatial data basics)

Frontend & Web GIS :

- React.js (Framework)
- Next.js (App Router)
- Tailwind CSS
- Formik & Yup (form handling)
- Redux Toolkit
- Leaflet.js
- Recharts (data visualization)

APIs & Database :

- MongoDB
- JWT
- RESTful APIs
- GraphQL
- Apollo
- PostgreSQL & PostGIS (learning)

Backend :

- Node.js
- Express.js
- Zod (validation)
- Python (basics)

CERTIFICATIONS:

- [MERN Stack\(2026\)](#)
- [GIS \(2025\)](#)
- [Web Design\(2023\)](#)

PROJECTS :

1. [Medlink \(Real-time Hospital Social App\) | Collaborative Project | Github Live](#) (In progress)

Stack : React, Node.js, Express, MongoDB, Leaflet, Socket.io, Recharts

- Developed a real-time emergency alert system with location-based notifications.
- Integrated live maps to display nearby hospitals and emergency resources.
- Designed REST APIs and structured backend services for secure data handling and scalable communication.

2. [QuakeAlert \(Real-time Earthquake Detection Tool\) | Github Live](#) (In progress)

Stack : Next.js, Node.js, Express, MongoDB, Leaflet, USGS API, Shadcn UI charts

- Built a system to fetch and process real-time earthquake data from USGS APIs.
- Added an interactive global map to visualize seismic events with location insights.
- Developed event detail views and RESTful APIs to query and manage earthquake data.