HEM RAJ PANDEY

Fullstack web GIS developer

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Website
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SUMMARY

I am a fourth-year Geomatics Engineering student at IOE Pashchimanchal Campus, Pokhara, Nepal. Since 2022, I have developed over 10 web applications and gained expertise in full-stack web development, web GIS development, and DevOps tools. I am proficient in deploying applications on Amazon Web Services (AWS).

EDUCATION

Bachelor in Geomatics Engineering

IOE Pashchimanchal Campus / Pokhara / August, 2019 - Present

WORK EXPERIENCE

Full stack web GIS developer

Mappers Nepal PVT LTD / Lalitpur / May, 2023 - Present
I am presently engaged in web and GIS development, with a primary focus on successful deployment of these applications. My work involves creating and optimizing web-based geospatial solutions to address specific needs and ensure efficient functionality.

Vice President

Geomatics Engineering Students' Association of Nepal (GESAN) / Pokhara / July, 2022 - July, 2023
Leadership role overseeing association activities and initiatives.

TRAINING/CERTIFICATION

SKILLS

- python
- Django
- Django Rest Framework
- PostgreSQL
- React
- Postgis
- LeafletJS
- openlayers
- Git/GitHub
- Javascript
- HTML
- CSS
- geoServer
- geonode
- OSM tools/apis
- AWS Cloud
- ArcGIS/ArcGIS pro
- sql
- Docker
- MapBox
- Remote sensing

Introduction to Open Source Web GIS Programming

Udemy / 2022

Certification URL:https://www.udemy.com/certificate/UC-cec273cb-d0c8-4422-a884-b9bbddd6f056/

Web Mapping and Web-GIS from Dev to Deploynent: GeoDjango

Udemy / 2022

Certification URL: https://ude.my/UC-43e9827f-aTea-44bf-b49a-f8T5822678c6

+ PORTFOLIO

Mappers Nepal website

https://mappersnepal.com.np/

Farmero web application developed

I have developed a location-based web application that connects farmers and buyers, streamlining the process of buying and selling agricultural products. The application includes real-time tracking capabilities implemented using Django channels and websockets for enhanced functionality.

https://youtu.be/Hc8aMj7oDQg

Flood Early Warning System (RPD Project)

I participated in the IoT project for the Rapid Prototype Development Challenge 2022. Our project utilized the Sony Spresense microprocessor and QZSS satellite positioning technology. The web application we developed offers real-time flood information through a web GIS interface. It leverages geospatial analysis to continuously track users' real-time locations and provide suggestions for safe zones in flood-affected areas.

https://youtu.be/fBX9JlbWeNE

Tourism web application developed

The web application functions similarly to popular ride-sharing platforms like Indrive and Pathoo. Passengers have the capability to create and submit their travel plans, and they can also send ride requests to available drivers. We've implemented Django channels and websockets to enable real-time tracking of rides and handle asynchronous ride requests for a seamless user experience.

https://github.com/HEM2058/Tourismo_webapp

- Photogrammetry
- QGIS
- ArcGIS Online
- GeoPandas
- NetworkX
- Rastero
- GDAl
- Adobe Photoshop
- Adobe Indesign
- Adobe Illustrator
- Google Earth Engine
- Google earth pro
- turfjs

+ LANGUAGE

- Nepali ● ● ● ● ●
- English ● ● ● ● ○
- Hindi ● ● ● ○ ○

+ REFERENCES

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Doctor Finder web application developed

Our application allows doctors to register, making their information visible on a map for easy access. Users can then navigate to these doctors and contact them as needed. For a more in-depth demonstration, please watch our video tutorial.

https://youtu.be/K75A3X-LM0E

Resource mapping portal

Our content management system offers: - Spatial/Non-spatial data visualization. - Data sharing capabilities. - Efficient metadata management. - Statistical data visualization tools. - Web mapping for attribute visualization, navigation, and filtering. - An admin panel for easy database management and data uploads.