HEM RAJ PANDEY

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INTRODEUCTION

I am currently pursuing bachelor in Geomatics Engineering (4th year student) at IOE Pashchimanchal Campus, Pokhara, Nepal. I have been working on full stack web development/web GIS development since 2022 and developed more than 7 webapps so far using different frontend and backend (Django) programming languages, frameworks and libraries.

I am also working as GIS Analyst and have experience in GeoPython libraries: Geopandas, GDAL, and so on.

WORK EXPERIENCE

Vice-president

GESAN

8/2021-7/2022   Pokhara, Nepal

Achievements/tasks

-volunteered the programs, trainings, spatial meets, etc.
-Designed the geoworld volume-v magazine

PROJECTS

✓ **Flood Early Warning System (RPD Project)**

-It is the IoT project for Rapid Prototype Development Challenge 2022
-We used Sony Spresense microprocessor and Qzss satellite positioning
-webapp provides real time flood information in web GIS webapp
-uses geospatial analysis to track your real time location and suggest the safe Zones.
See more: https://youtu.be/fBX9JlbWeNE

✓ **Doctor finder webapp**

-Doctor can register on app so that their information will be visible on map.
-Anyone can navigate with doctors and contact with them.
See more: https://youtu.be/K75A3X-LM0E

✓ **Center for Space Science and Geomatics studies Webapp**

-six admin apps for managing the webapp. Six pages (Home, Team, Contact, Projects, Events, Blogs)
See more: https://rb.gy/bws1s

EDUCATION

Bachelor in Geomatics Engineering
Tribhuvan University IOE, Pashchimanchal
12/2019-Present (expected graduate date: 04/2024)

KEY SKILLS

- PYTHON
- DJANGO
- HTML
- CSS
- JAVASCRIPT
- POSTGRESQL
- POSTGIS
- LEAFLETJS
- TURFJS
- JQUERY
- GEOSERVER
- CARTOGRAPHY
- ARCGIS
- QGIS
- MAPBOX
- OSM TOOLS
- GOOGLE EARTH ENGINE
- GOOGLE EARTH PRO
- GOOGLE CLOUD PLATFORM
- ADOBE PHOTOSHOP
- ADOBE ILLUSTRATOR
- ADOBE INDESIGN
- INTERNET OF THINGS (IOT)

- SURVEYING
- REMOTE SENSING
- GNSS/GIS

✓ **Job portal Webapp**

-You can register and login as candidates and company,

-By logging as company, you can add job, see applied job list, job opening list and customize you company profile

- By logging as candidate, you can see opening job list, apply to the job

See more: https://rb.gy/froo7

✓ **Tourist Spot webapp**

-webapp like google map with additional features such as tourists can contact local guider through the app.

✓ **Geospatial data visualization webapp**

-You can add note to map, print map at different format, switch between base maps, visualize the geoJSON file, add shp files to map with the help of GeoDjango backend.

✓ **Real time Location Tracking Webapp**

-It provides the real time location of user.

✓ **Leaflet Draw**

-Can draw features on map (Point, Line, Polygon).