

HEM RAJ PANDEY

BACKEND DEVELOPER

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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 freelancing developer 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

✓ [Tourismo webapp](#)

- Webapp works like Indrive and Pathoo
- Passenger can add their plan
- Passenger can request for ride to active drivers
- Django channel and websocket are used for real time tracking and asynchronous request handling.

See more: https://github.com/HEM2058/Tourismo_webapp

✓ [Farmero webapp](#)

- Connects the farmer and buyer
- Real time tracking system using Django channel and websocket

See more: <https://youtu.be/Hc8aMj7oDQg>

✓ [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.

EDUCATION

Bachelor in Geomatics Engineering

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

KEY SKILLS

- PYTHON
- DJANGO
- WEBSOCKET
- APIS
- HTML
- CSS
- JAVASCRIPT
- POSTGRESQL
- POSTGIS
- LEAFLETJS/ITS PLUGINS
- DOCKER
- LINUX (UBUNUT)
- GIT/GITHUB
- TURFJS
- JQUERY
- GEOSERVER
- CARTOGRAPHY
- ARCGIS
- QGIS/ITS PLUGINS
- MAPBOX
- OSM TOOLS/ITS API
- GOOGLE EARTH ENGINE
- GOOGLE EARTH PRO

-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>

✓ **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>

✓ **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.

- ADOBE PHOTOSHOP
- ADOBE ILLUSTRATOR
- ADOBE INDESIGN
- INTERNET OF THINGS (IOT)
- SURVEYING
- REMOTE SENSING
- GNSS/GIS
- GEONODE