

# HEM RAJ PANDEY

FULLSTACK GEOSPATIAL DEVELOPER

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## INTRODEUCTION

I am currently pursuing bachelor in **Geomatics Engineering** (4<sup>th</sup> 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 10 web applications so far. I have experience in DevOps tools and amazon web server for deployment of applications.

## WORK EXPERIENCE

### Web GIS Developer (Remote)

#### Mappers Nepal PVT LTD

05/2023-Present

Lalitpur, Nepal

Achievements/Tasks

- Geoportal development for SDI.
- Geonode development.
- Resource mapping, web mapping
- Backend development using Django
- Web GIS development
- Deployment

### Vice President

#### GESAN

8/2021-7/2022

Pokhara, Nepal

Achievements/tasks

- volunteered the geospatial programs, trainings, workshops etc.
- Designed the [geoworld volume-v magazine](#)

## PROJECTS

### ✓ Geoportal development for Resource mapping and SDI

- Content management system
- Spatial/Non spatial data visualization
- Data sharing among people
- metadata information management
- Statistical data visualization
- Web map for attribute visualization, navigation, filtering, map printing so on.
- Admin panel for database management and data uploading

## EDUCATION

### Bachelor in Geomatics Engineering

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

## KEY SKILLS

- PYTHON
- DJANGO
- WEBSOCKET
- DJANGO RESTFRAMEWORK
- RDBMS
- HTML
- CSS
- JAVASCRIPT
- SQL
- POSTGRESQL
- POSTGIS
- LEAFLETS/ITS PLUGINS
- AWS CLOUD
- DOCKER
- GEONODE
- GIT/GITHUB
- REACT
- TURFJS
- JQUERY
- GEOSERVER
- CARTOGRAPHY
- ARCGIS
- ARCGIS PRO

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### ✓ 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](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.
- Anyone can navigate with doctors and contact with them.

See more: <https://youtu.be/K75A3X-LM0E>

### ✓ 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.

- QGIS/ITS PLUGINS
- MAPBOX
- OSM TOOLS/ITS API
- GOOGLE EARTH ENGINE
- GOOGLE EARTH PRO
- ADOBE PHOTOSHOP
- ADOBE ILLUSTRATOR
- ADOBE INDESIGN
- SURVEYING
- REMOTE SENSING
- GNSS