



- <https://sachinmanandhar.com.np>
- [sacheenmdr9@gmail.com](mailto:sacheenmdr9@gmail.com)
- +977-9861691732
- Madhyapur Thimi - 4, Bhaktapur, Nepal

## EDUCATION

- Kathmandu University**  
*Bachelor in Geomatics Engineering*  
Completed in 2020
- Seabird International College**  
*Higher Secondary School*  
Completed in 2016

## SKILLS

<b>Web Development:</b>	<i>django, vue.js, postgresql</i>
<b>Python Libraries:</b>	<i>rasterio, celery, beautifulsoup4, selenium, opencv-python, scrapy, geocoder, python-docx, arcPy</i>
<b>Visualization Tools:</b>	<i>highchart.js, metabase, plotly, pivottable.js</i>
<b>Deployment</b>	<i>Nginx, Unicorn, Linux Environment</i>
<b>WebGIS Tools:</b>	<i>geoserver, gdal, postgis, openlayers.js</i>
<b>GIS Softwares</b>	<i>ArcGIS Pro, QGIS, ArcGIS Dashboard</i>
<b>Version Control:</b>	<i>Git</i>
<b>Other Skills:</b>	<i>OSM tools, Kobotoolbox, Arcgis Online</i>

## PUBLICATIONS

- Naresh Bista, Dikpal Mahat, Sachin Manandhar, Binayak Regmi, Uma Shankar Panday, Shashank Karki | "Analyzing Trend and Pattern of Agricultural Drought: A Case Study of Karnali and Sudurpashchim Provinces" | Journal of Survey Department, 2020

## REFERENCES

Dr. Reshma Shrestha	reshma@ku.edu.np	Head of Department, Kathmandu University
Dr. Rajesh Thapa	rajesh.thapa@icimod.org	Senior Remote Sensing & Geoinformation Specialist, ICIMOD
Dr. Sanjeev Bhuchar	sanjeev.bhuchar@icimod.org	Watershed Management Specialist, ICIMOD

# Sachin Manandhar

## Geospatial Application Developer

### ABOUT ME

Nepal Based Geomatics Engineer with a demonstrated history of working in the Geospatial Database Management, Web GIS Development and visualizations

### WORK EXPERIENCE

- 2025 ICIMOD | SERVIR HKH | Geospatial Developer- Analyst**  
*July 2024 – current*  
Development of geospatial applications as part of a collaborative initiative between NASA and USAID SERVIR HKH
- ICIMOD | GIS Developer Consultant**  
*Sep 2022 – July 2024*  
Development of Decision Support System for Springshed Management and NBS Publishing Toolkit across the Hindukush Himalayan Region
- Globiz Engineering | GIS Developer**  
*May 2022 – Aug 2022*  
Development of Volunteering Management & Mobilizing System for National Disaster Risk Reduction and Management Authority (NDRRMA)
- Pathway Technologies | Python Developer**  
*Jan 2021 – May 2022*  
Full Stack Development in the capacity of Software Development core of expertise in Web Based GIS Development
- 2020 NAXA Pvt Ltd | Intern**  
*Jun 2020 – Aug 2020*  
An Open Data Initiative to Locate and Map the Location of Headquarter of all 753 Municipalities & Rural Municipalities and their Ward offices in Nepal

### PROJECTS

- Decision Support System for Spring Revival in Hindukush Himalayan Region | ICIMOD**  
Interactive online portal that guides the decision makers on various aspects of springshed management by offering different tools for intervention and visualizations (<http://hkhsprings.icimod.org/>)  
**roles: fullstack development, database design, UI/UX wireframe**
- National Reconstruction Portal | Government of Nepal**  
Visualization System of the Earthquake that took place in Nepal in 2015 that includes data of Damage Assessments Survey, Reconstructions, Socio Economic Aspects, Budgets and Many more (<https://portal.nra.gov.np/>)  
**roles: fullstack development, database design, UI/UX wireframe**
- Infrastructure Sustainability Intelligence Tool | GIZ**  
Prototype system that uses a variety of Artificial Intelligence techniques that gather and assess information on planned Infrastructure projects to screen projects for signals of sustainability and resilience  
**roles: API development, frontend development**
- Volunteering Management & Mobilizing System | Government of Nepal**  
System that manages all the volunteer across Nepal and assists in mobilizing them during the disaster and provides certifications to volunteers after tasks are completed. (<https://vms.ndrrma.gov.np/>)  
**roles: fullstack development, database design, UI/UX wireframe**