

MUHAMMAD HAMZA

Undergraduate Student of Geo-
Information & Earth Observation

PERSONAL INFO

Address:

Room 315, Jinnah Hostel,
Shamsabad, Rawalpindi, Pakistan

Phone:

+92-3073269360

E-mail:

mhwahla360@gmail.com

Date & place of birth:

1996-01-11, Rahimyarkhan

LinkedIn:

<https://www.linkedin.com/in/mhwahla>

SKILLS

- GIS | Remote Sensing
- Image Processing
- Data Science & Analytics
- Web Development
- Digital & Geomarketing
- SEO/Local Listing
- Public Speaking

SOFTWARES | LANGUAGES

Python	ArcGIS
MapInfo	ArcHydro
QGIS	ERDAS
ENVI	Geomatica
Global Mapper	ESA Snap
Google Earth	App Engine
GrADS/CDO	GeoODK
MATLAB	C/C++
JavaScript	WordPress
Django	GeoServer
SQL	PostGIS
Photoshop	Illustrator
AutoCAD	MS Office

With practical command over **open-source** as well as commercial GIS & Satellite **Image Processing** tools, I am versed in **spatial analysis, geodatabases & digital mapping**. Also proficient in **web development** & have 4 years of **freelance** writing experience. I am a strong proponent of **FOSS4G**, Volunteer GIS & open geo-data such as **OpenStreetMap**. My academic experience has given me exposure towards developmental, **urban & transportation & environmental planning** issues. I believe GIS is a mean of bridging different fields of **earth & social sciences**. Also a keen Data Science, **Machine Learning, Deep Learning & Computer Vision** enthusiast. I have proven academic achievements & possess the right technical & soft skills required to propel the organization in achieving its goals & objectives.



EDUCATION

- **BS Geo-Informatics (6th Semester)** 2016 – Present
Arid Agriculture University Rawalpindi | CGPA: 2.9/4.00
Courses: Object Oriented Programming | GIS | Remote Sensing | Digital Image Processing | Geo-Database Systems | Web GIS Development | CAD | Computer Graphics | Surveying | Soil Mechanics | Cartography | Photogrammetry | Geodesy | Earth & Weather Sciences | Navigation Systems | Physical & Human Geography | Environmental Engineering | Spatial Data Infrastructure & Decision Support Systems | GIS Programming
- **Punjab College Sadiqabad** 2012 – 2014
Higher Secondary School Certificate | Pre Medical | A Grade
- **Iqra Public School, Sadiqabad** 2010 – 2012
Secondary School Certificate | Biology and Physics | A Grade

EXPERIENCE

- **Fiverr GIS Analyst (level 1)** 2017 – Present
Senior GIS **freelancer** | **GIS Development**, Analysis and Dashboarding
- **GIS Seekin** 2016 – Present
Founder | **Video** tutorials & online training on GIS, Remote Sensing
- **MER Consultants** 2018 – 2019
GIS Intern | Data Preparation, Regional Mapping and GIS tasking
- **SAGRS Society** 2019 – Present
Founder | Training on GIS, Remote Sensing

CERTIFICATES

- **Youth National Award Winner (GIS Category)** NYAC, March 2018
- **Web ODM (Open Drone Mapping)** Github, September 2018
- **Computation and Python MIT OCW** August 2018
- **GIS Surveyor** PITB, April 2018

PERSONAL PROJECTS

1. **GPS device** developed from scratch (fully functional)
2. **911 Call Prediction** in US using Exploratory Data Analysis
3. Automated **Snow Cover Area Change Detection** in UIB using MODIS Timeseries
4. **3D point cloud conversion into DEM**
5. Mapping 2017 Karachi **Floods** using Sentinel-1 SAR Data
6. **Arc-GIS Tool Development**
7. ArcGIS based **Navigation** System for Hyderabad City
8. **Groundwater** Modelling in Islamabad using **OBIA** and MCDA
9. GWR **Geographic Weighted Regression Analysis**
10. Geodatabase Development for a Hypothetical **Smart City** in ArcGIS
11. Assessment of Minerals using **ASTER- SAR-Land Sat Composite Data**
12. **Mangrove** Change Detection in Indus Delta Wetland (1988-2018) using Landsat