

# Muhammad Hamza

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## PROFESSIONAL EXPERIENCE

### **SURVEY OF PAKISTAN Cadastral Mapping Project, GreenAge Services LTD.**

#### **GIS Analyst, ISB Headquarters**

Jul 2021 – Present

- Supervise teams and ensure project are executed over the course of 24-week terms
- Coordinate with GIS Specialist, Ground Survey Teams, QA panel, to automate whole process of digitization of land records

#### **GIS Technician, BWP, South Punjab**

Aug 2020 – Jul 2021

- Encompassing satellite image preprocessing, cadastral raster creation, GCP surveys, and web portal development for diverse Bahawalpur State land projects.
- Lead a team of five individuals facilitating communication with 15 Cities Administration, District Cadastre Authority, and land book registrars

### **Offshore Navigation Ltd, Limassol, Cyprus**

#### **Python Summer Intern, Remote**

May 2020 – Aug 2020

- Crafted an innovative Python-CDO Script, unlocking the visual narrative of climatic dataset frequencies for Marine Climatic Monitoring Product (VoyOpt™).
- Deepened proficiency in climate data processing and visualization tools, including NetCDF, HDF5, GRIB formats, Python libraries like Xarray, netcdf4, and matplotlib, through hands-on experience in the Earth Observation Team.

### **MER Solutions Pvt Ltd, RWP**

#### **RS Summer Intern, St Town**

Mar 2018 – Jun 2018

- Engineered the WBGT (Wet Bulb Globe Temperature) Algorithm to conduct Heat Stroke Hotspot Analysis in South Pakistan cities such as Karachi and Hyderabad.
- Contributed to a Health Map and GIS projects on administrative boundaries, alongside tasks such as georeferencing, flood mapping, and website development for a GIS Public Sector Organization..

### **Fiverr GIS Freelance, Online**

#### **GIS Mapping Analyst, Remote**

Oct 2017 – May 2020

- Among Top 16 Freelancers at site, Successfully delivered over 350 projects, maintaining an impressive 4.9/5.0 rating. This was achieved while actively managing and updating my profile during my graduate studies at Arid University.

## TECHNICAL SKILLS

Python | ArcGIS | ENVI | HTML | CSS | CDO | ArcGIS | Google Earth Engine | GitHub

## EDUCATION

### **Post Graduate Certification in Artificial Intelligence**

Sep 2020 - Aug 2021

PIAIC, Islamabad, PK

Deep Learning, Linux, Docker, SageMaker, Computer Vision with TensorFlow

### **Bachelor of Science in Geographic Information Science**

Aug 2016 - Aug 2020

Arid University, Rawalpindi, PK

Top GIS Voice @LinkedIn | Guest Speaker @UCLA | Co-founder of Society of GIS & RS