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🌐 www.linkedin.com/in/Bilalperviaz www.github.com/GeospatialGeeks/Py4Geo
Sex Male | Date of birth 05/28/1997 | Nationality Pakistani

WORK EXPERIENCE

01/07/2018–30/09/2018 GIS and Remote Sensing Intern

TPL Maps
Islamabad Office South Side, 10th Floor, ISE Tower, 55-B, Jinnah Avenue, Blue Area, Islamabad (Pakistan) | www.tpl.map.com

- Spatial Analysis using QGIS/ PostgreSQL/ PostGIS Database
- Internet Mapping with Geoserver and PostgreSQL
- Pakistan General Elections 2018 Jurisdiction and Result Mapping

20/01/2020 – Present

GIS Analyst

Propsure Digital Solution Pvt.Ltd

NSTP NUST Khyber Rd, H-12, Islamabad, Islamabad Capital Territory 46000

- Maintaining, Managing and Creating Geo-Spatial Database
- Designing Spatial Queries for GIS Development
- GIS workflow Automation
- Big Data Visualization Using PostGIS Databases and Geoserver for Mapping Application

EDUCATION

2015–2019 BS (Hons.) Geo-Informatics

Institute of Geo-Information and Earth Observation (**IGEO**), PMAS University of Arid Agriculture Rawalpindi (**UAAR**), Murree Road, Shamsabad, 46000 Rawalpindi (Pakistan) | uaar.edu.pk/igeo

Courses: GIS, Remote Sensing, Earth Sciences, Statistics, Linear Algebra, Discrete Mathematics, Object Oriented Programming, Geo-Database Systems, Digital Image Processing, GIS Programming, Web GIS Development, Computer Graphics, CAD, Cartography, Navigation Systems, Photogrammetry, Geodesy, Hydrology, Agriculture, Weather Analysis and Forecasting, Spatial Decision Support Systems, Spatial Data Infrastructure, Natural Resource Management

2013–2015 Higher Secondary School Certificate (HSSC)

Islamabad Model College For Boys G-11/1, Islamabad (Pakistan) | Pre-Engineering
Physics, Chemistry, Mathematics

2011–2013 Secondary School Certificate (SSC)

Islamabad Model College For Boys G-11/1, Islamabad (Pakistan) | Matriculation
Physics, Chemistry, Mathematics, Biology

TRAINING CERTIFICATES

20/04/2018–30/06/2018 GIS Surveying and Analysis

Punjab Board of Technical Education (PBTE)

2018 Digital Image Processing with OpenCV in Python

Geo University (GU)

2019 GIS Web Maps with HTML, JS, CSS, and off the shelf tools

Udemy

	Advanced	Intermediate	Beginner
GIS & Remote Sensing Tools	ArcGIS, QGIS, ERDAS Imagine, ENVI, GeoODK Google Earth, Earth Explorer, SAS Planet	ECognition, MIPS, Matlab, Google Earth Engine, Global Mapper	GrADs, PCI Geometica
RS Datasets	MODIS, Landsat, ASTER, Sentinel-2, NOAA	Sentinel-1	
Programming	SQL	JavaScript	MATLAB, Python
Data Science & Computing	Exploratory Data Analysis		Machine Learning, Deep Learning
DBMS & Extensions	PostgreSQL, PostGIS		
Web & Mobile Development		HTML5, CSS	Flask
Web Mapping	OpenStreetMap, Google Maps API	GeoServer GeoNetwork	
Other Tools	MS Office	AutoCAD	

ADDITIONAL INFORMATION

Professional Projects

- **Real Estate Transformation through Digitilization**
Developing Location-based real estate application and portal that automate transactions or decision making process and maintain Transparency
- **Remote Sensing Analysis for Price Indexing in Real Estate**

Semester Projects

- **Automated Feature Extraction** and **Socioeconomic Parameter** Estimation from Satellite Imagery using **Deep Learning**(FYP)
- **Assessment of snow and Glacier Dynamics** in Region of Upper Indus Basin Using RS/GIS
- **Crop Type Mapping** using MODIS NDVI Time Series and **Irrigation Demand Estimation**
- ArcGis Based **Navigation System** for Gujranwala City
- **Mobile Geo-Data Capturing Application** to Study **Social Media Habits** Among People
- **Geo-Database** Development for **Swabi University** Using ArcGis
- **Suitability Analysis** for Wind Turbines in Chakri District
- **Flood Monitoring** and Damage Assessment in Multan
- **Spatial-Temporal** Trend Modelling of **Mangroves Forest** in Indus Delta Wetland Using Landsat
- **Change Detection of Land Surface Temperature** of Punjab Using Landsat Images
- **Watershed** Analysis

Workshops

- Workshop on **Mobile GIS Data Collection** & Management System (UAAR, 2015)
- Regional Training Workshop on **GIS for Agricultural Monitoring** (UAAR, 2016)

References

- **Mr. Atiq Ullah** | Manager GIS | PropSure Digital Solutions
|atiq.ullah@propsure.com.pk | Professional Reference
- **Dr. M. Hasan Ali Baig** | CASAlumnus | Director | IGEO, UAAR | mhasanbaig@uaar.edu.pk | Academic Reference
- **Dr. M. Imran** | ITCAIumnus | Assistant Professor | IGEO, UAAR | imran.igeo@uaar.edu.pk | Academic Reference