Abdul Hameed

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LinkedIn: linkedin.com/in/abdul-hameed-3721791ba

GitHub: https://github.com/hameedkhan001

Date of birth: 23/01/2000 **Nationality:** Pakistani

WORK EXPERIENCE

[01/04/2021 – Current] **Assistant Manager GIS**

PropSure Digital Solutions

City: Islamabad | **Country:** Pakistan

Responsibilities:

- GIS Team Lead
- Web-based data visualization using QGIS, ArcGIS, PostgreSQL, GeoServer, and Leaflet
- Managed large datasets using PostgreSQL and GeoServer
- Developed spatial data infrastructure (SDI) leveraging open-source tools
- Optimized routing applications using spatial queries for efficient results
- Creating immersive 3D property visualizations with cesiumjs for enhanced user experience
- GIS analytics and Spatial data science for cities and urbanization studies (Remote Sensing GIS and AI)
- Sustainability into cotton Production, using geospatial technologies
- Digitization of Unplanned areas of Pakistan using ML/AI models
- Worked on a Capstone CRM-based project, integrating Title Plans and Title Registers for vertical projects to enable the mapping and precise location of individual units

[01/11/2024 – Current] **Senior 3D WebGIS Specialist**

City Pulse Private Limited

City: Multan | **Country:** Pakistan

- Prepare 3D environment for 3D Digital Twin City for RUDA (Ravi Urban Development Authority)
- Receive building data and other geospatial layers from architect team and embed them in 3D WebGIS
- Receive 3D models that can feed into 3D WebGIS Environment
- UI and optimization of 3D Applications
- Application Coordinate with senior town planners for any gap in schematic planning of layers

[01/11/2023 – Current] **RS and GIS Consultant**

Resilience Gateway

City: Islamabad | **Country:** Pakistan

- Worked as a GIS Specialist to source, process, and analyzed temporal Sentinel 2A data using Google Earth Engine

- The project resulted in the identification of cotton productive regions, which helped the optimization of agricultural resource allocation and increasing phenology of cotton growth in various regions
- Working on PIMS (Property Inspection Management System) GIS Based Application
- which help in Land Information Systems, Feasibility Studies for Demand-Driven and Need-Based Projects, Master Planning, Environmental Impact Assessment, Hydrological Services, and Digital Inventory Management System

[01/11/2021 – 30/04/2022] **GIS Analyst**

PropSure Digital Solutions

City: Islamabad | **Country:** Pakistan

Responsibilities:

- Land use Land cover (LULC) classification to see Temporal Changes in Pakistan for future development
- Digitization of Planned areas of Pakistan Creating Storing and managing spatial data in (QGIS ArcGIS PostgreSQL and GeoServer)
- Quality Assessment and Quality Assurance of Spatial data for all planned area of Pakistan
- Site suitability analysis for the new projects identifying best locations for new development
- Creating immersive 3D property visualizations with cesiumjs for enhanced user experience
- GIS analytics and Spatial data science for cities and urbanization studies (Remote sensing, GIS and AI)
- Digitization of Unplanned areas of Pakistan using ML/AI models

[01/08/2021 – 30/10/2021] **GIS Assistant**

Greenage Services

City: Islamabad | **Country:** Pakistan

Responsibilities:

- Worked on Government of Pakistan led project, where we did Land Record information, Digitization and cadastral mapping of state land
- Where we did Georeferencing of mauzas and mosaicking them on one grid
- After georeferencing we did digitization and enter accurate information in land parcels
- Quality Assessment and Quality Assurance of state land digitized data

[01/10/2020 – 31/01/2021] **Interne**

PropSure Digital Solutions

City: Islamabad | **Country:** Pakistan

Responsibilities:

- Georeferencing of Lops (Lay out plans) of housing societies of major cities of Pakistan
- Digitization and attribute filling using different software (QGIS, ArcGIS)
- QA/QC of Geospatial data

EDUCATION AND TRAINING

[01/10/2017 – 16/08/2021] **BS Remote Sensing and GIS**

Government College University Faisalabad   https://gcuf.edu.pk/

Address: Kotwali Rd, Gurunanakpura, 38000 Faisalabad (Pakistan) , 38850, Faisalabad, Pakistan |

[18/07/2022 – 20/07/2022]

Web GIS and spatial database development using free and open source software

ISNET & SUPARCO   https://suparco.gov.pk/

Address: Near Abbasi High School, House No SA-796/5 Ghazali Road Sadiqabad, RawalpindiSa, 45500, Rawalpindi, Pakistan | | **Level in EQF:** EQF level 8

[27/08/2021 – 01/09/2021]

Digital Image Processing with openCV in Python

GU Geo University   www.geo.university

Address: Near Abbasi High School, House No SA-796/5 Ghazali Road Sadiqabad, RawalpindiSa, 45500, Rawalpindi, Pakistan | | **Level in EQF:** EQF level 8

[05/10/2024 – 06/10/2024]

The NASA International Space App Challenge

Government College University Faisalabad   https://gcuf.edu.pk/

City: Faisalabad | **Country:** Pakistan | | **Level in EQF:** EQF level 8

[01/07/2021 – 19/07/2021]

Workshop on Empowering Beginners with GIS (WEBGIS)

ENVIGIS Mapping services, Climate Beacons network.

Address: Near Abbasi High School, House No SA-796/5 Ghazali Road Sadiqabad, RawalpindiSa, 15100, GILGIT |

LANGUAGE SKILLS

Mother tongue(s): Shina , Urdu

Other language(s):

English

LISTENING B2 **READING** B2 **WRITING** B2

SPOKEN PRODUCTION C1 **SPOKEN INTERACTION** C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

My Digital Skills

GEE | ArcGIS | ArcGIS pro | QGIS | MS Office | SQL | POSTGIS | GeoServer | GeoNode | Cesium | Javascript | LeafletJS | Python | PostgreSQL | PgAdmin | Next.JS | PHP | Laravel | Leaflet | jupyter notebooks

PROJECTS

List of Projects

LIMS (Land information Management System) for the whole planned areas of the Pakistan

OPVS (Online Property Verification System) Developed the real estate online property verification portal which is a transparent regulatory framework, help to regulate vulnerabilities in term of scams and fraudulent practices.

CDA (Capital Development Authority) In collaboration with CDA developed a dashboard which automated the whole process by enabling the user to verify their properties from authority automatically.

NDP (National Development Plan) 2047, this is visionary project of my company, we applying multiple analysis on it and the aim is to identify the economic potential of each district for future development using geospatial technologies.

- Cadastral Mapping and land record information of state land to maintain transparency and encroachments
- Better Cotton Initiative Project for sustainable development of Cotton in the cotton production districts of Pakistan using remote sensing and spatial technologies.
- Flood Management of Karachi District Sindh Pakistan where we identified the destruction loss estimation and also has an implication to assess spatial pattern of disaster risk.
- Urban Land use and Network Centrality here we examined the association between urban design and centrality in Faisalabad.
- Hydrological analysis for district Astore Gilgit Baltistan using DEM dataset and find waterways where we generate hydroelectricity.
- China-Pakistan Economic Corridor (CPEC) comprehensive route map for better understanding.
- 3D web mapping using cesiumjs for Rhodes Greece Island housing society extruded the polygons from its master plan how it will look like when it built near future immersive experience.
- 3D base map for game using map box where I done a basemap for the game and visualization of players and games on locations.
- LULC (Land Use Land Cover) classification for the Capital territory of Islamabad using Google earth engine and identifying potential future urban expansion area in Islamabad.
- ArcGIS online web mapping for Timor-Leste Land use map.
- Parcel detection using deep learning and AI models for the unplanned areas of the Pakistan.
- 3D Digital twin project collaboration with RUDA(Ravi Urban Development Authority).
- 3D web mapping using cesiumjs visualized and compare the results of two candidates of US 2020 elections

REFERENCES

The references are as follows

Bilal Ahmed

Head of Engineering | IMARAT GROUP OF COMPANIES |

bilal.ahmed@imarat.com.pk

Dr. Shoaib Khalid

Assistant Professor | Government College University |

shoaibkhalid@gcuf.edu.pk