

ZAHAK WALI ZAHIR

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EDUCATION

UNIVERSITY OF THE PUNJAB - Lahore

2021 - 2025

CENTER OF GEOGRAPHIC INFORMATION SYSTEM - Bachelor of Geographic Information System

CGPA : 3.55 / 4.00

Concentrations: Geospatial Analyst, GIS Developer, Remote Sensing & Cartography.

Honors: Three times chess champion.

Relevant Coursework: Spatial analysis, Remote sensing, Cartography, Geo-spatial data management, Web applications, and advanced environmental mapping techniques .

CITY COLLEGE - Multan

March 2019-2021

- Fsc Pre-Engineering

Professional Experience

US Packaging Solutions - Customer Sales Representative ; Lahore

Jun 2022 - Dec 2022

- Strengthened interpersonal and communication skills through customer engagement.
- Gained experience in record-keeping, coordination, and client support workflows.

GIS Lab Punjab Forest Department - GIS Intern ; Lahore

Jun 2024 - Aug 2024

- LULC classification using machine learning algorithms in Google Earth Engine.
- Drone manual control and automated systems for various applications.
- Post processing of drone images in Agisoft.
- Objects based image analysis of drone imagery using Ecognition.

Geospatial Development Projects

June 2023 - Present

- Built 5+ GEE apps (NDVI/Power Plant/Hurricane Trackers) for spatio-temporal analysis.
- Developed conflict mapping tools with heatmaps and large dataset optimisation.
- Created Mapbox-based analysis tools with clustering and statistical features.
- Designed interactive web apps with time playback and dynamic filtering.
- Automated geospatial workflows using Python scripts to process satellite imagery

Upwork - Freelancer

May 2024 - Present

- Developed geo-spatial web applications using Mapbox GL JS.
- Proficient in visualising and analysing satellite data for tasks like oil spill change detection and LULC.
- Created customised charts, integrating time series analysis and cartographic representations.
- Delivered interactive, user-friendly applications for environmental monitoring and geo-spatial data visualisation.

SKILLS/INTERESTS

- Proficient with Google Earth Engine JS, QGIS, ArcMap, ArcGIS Pro, Visual Studio Code.
- Skilled in building interactive mapping applications with Leaflet and Mapbox GL JS libraries.
- Basic Python (Jupyter/Colab) with geospatial libraries (NumPy, GeoPandas) for data analysis.
- Native Urdu speaker, Fluent in English.
- *Interests:* Chess, Movies, Cooking.