FARRUKH ZAHID

Senior GIS Specialist | GIS Developer | Smart City Solutions

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Professional Summary

Seasoned GIS professional with 10+ years of experience designing and developing interactive GIS applications for smart city, transportation, and infrastructure projects. Expert in Esri Experience Builder, Web AppBuilder, ArcGIS Enterprise/Portal, and ArcGIS API for JavaScript, with strong skills in JavaScript, HTML, CSS, and React. Proven track record of delivering geospatial solutions that enhance transportation planning, infrastructure monitoring, and mobility initiatives. PMP certified, with a passion for leveraging spatial data to solve real world challenges.

Core Skills

- Esri Apps (Instant App, Dashboard, Experience Builder / Web AppBuilder)
- ArcGIS Enterprise / ArcGIS Portal
- ArcGIS API for JavaScript (custom widgets, components)
- Web GIS application development (JavaScript, HTML)
- Geodatabase management & spatial analysis
- Integration of GIS with APIs and enterprise systems
- 3D GIS applications & Digital Twin development
- Transportation & infrastructure GIS systems
- Smart city platforms & municipal GIS solutions

Professional Experience

Senior GIS Specialist

Proztec – Doha, Qatar | Jan 2023 – Present

- Designed and developed interactive GIS web applications using Esri Experience Builder and Web AppBuilder for transportation and smart mobility projects.
- Built and customized map-based dashboards for traffic monitoring, infrastructure tracking, and urban planning.
- Developed custom widgets/components with ArcGIS API for JavaScript to enhance application functionality.
- Managed ArcGIS Enterprise/Portal (Azure based), publishing and maintaining web services, feature layers, and web maps.
- Integrated GIS applications with external systems and APIs, ensuring seamless data flow across platforms.
- Supported deployment and configuration of enterprise GIS solutions, improving system reliability and scalability.
- Collaborated with stakeholders on the Doha City Digital Twin project, delivering advanced 3D visualization and geospatial analysis for smart city planning.

GIS Consultant (Freelance)

Tomkulak – Toronto, Canada | Jan 2024 – May 2025

- Conducted bathymetric data analysis for port site selection and cargo ship route optimization.

- Delivered GISbased solutions for shoreline monitoring and sea depth analysis, supporting infrastructure planning.

Enterprise Fixed Geomarketing Specialist

Emirates Integrated Telecommunication (DU) – Dubai, UAE | Nov 2021 – Dec 2022

- Developed digital maps and dashboards using ArcGIS Online for telecom infrastructure planning.
- Delivered data driven visualization tools to support decision making for government and enterprise clients.

GIS Planner

Etisalat – Dubai, UAE | Feb 2021 – Oct 2021

- Supported fiber optic network planning with GIS based civil route updates, connectivity mapping, and geodatabase maintenance.

GIS Engineer

Circle Engineering Consultancy – Abu Dhabi, UAE | Feb 2020 – Feb 2021

- Developed hydrogeological mapping portal for UAE, enhancing national infrastructure planning.

GIS Manager

United Track System – Lahore, Pakistan | Nov 2016 – Feb 2020

- Led GIS team in vehicle tracking and transportation mapping projects, integrating OSM and Google APIs.
- Digital mapping of Pakistan Map for Vehicle Tracking.
- Prepares GIS project plans and schedules to include coordinating resources, tasks, and work assignments
- Managing the survey for the collection of landmarks & Landmarks Collection through Open Street Maps (OSM) & Google Api's.

SKAFS Consultant – Lahore, Pakistan | Feb 2016 – Sep 2016

GIS Expert – Project: SAAF PAANI (Package 4 & 8)

- Created groundwater quality maps using PHED and Skafs surveyed data.
- Collected and analyzed satellite imagery for site suitability of water filtration plants.
- Evaluated survey data against defined parameters for interpolation and mapping.

PITCO – Lahore, Pakistan | Mar 2015 – Aug 2015

GIS Specialist – Project: Planning and Distribution Program (P&D) USAID

- Transformed raw field survey data into actionable insights and detailed electric line maps to support infrastructure planning.
- Managed spatial databases and partnered with engineering teams to analyze electricity losses and generate statistical reports for strategic documentation.

Urban Unit – Islamabad, Pakistan | Jan 2015 – Feb 2015

GIS Supervisor – Project: Federal Government Employment Housing Foundation (FGEHF)

- Conducted surveys for housing data collection.
- Analyzed spatial data quality and prepared web-based maps.
- Maintained geodatabases and created maps for legal/illegal housing.
- Directed door to door survey data collection.

National University of Sciences and Technology – Islamabad, Pakistan | Jun 2014 – Mar 2015
Research Associate – Project: Biomass Gasification Technology Support Systems (USAID)

- Identified crop types using SPOT satellite imagery.
- Estimated crop residue for electricity generation.
- Calculated energy production potential from biomass.
- Created crop availability maps for Punjab region.
- Mapped crop residue distribution for energy planning.

Education

MSc Remote Sensing & GIS – National University of Sciences & Technology (NUST), Islamabad

BSc (Hons) Computational Physics – University of the Punjab, Lahore

Certifications

Certifications (ESRI, 2024)

- Make an Impact with Modern Geo Apps – Environmental Systems Research Institute (ESRI)
- Spatial Data Science: The New Frontier in Analytics – ESRI
- GIS for Climate Action – ESRI
- Cartography – ESRI
  For More Certifications Details [Click Me](#).

Honors & Awards

- Outstanding Efforts in Delivering Geomarketing Insight for Fixed Market Sizing and GIS Data – Du Telecom, Dubai (2022)
- Outstanding Efforts in Delivering Geomarketing Insight for GIS Data Visualization – Du Telecom, Dubai (2022)

PMP Certified (2024–2027)

Publications: Wind Farms Selection Using Geospatial Technologies (ScienceDirect, 2021)