

# MUHAMMAD SHAHEER QURESHI

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## CAREER OBJECTIVE

*A Detail-oriented GIS & AutoCAD professional with strong expertise in spatial data analysis, 2D drafting, and database management. Skilled in integrating GIS datasets with precise AutoCAD drawings to produce accurate maps, layouts, and technical plans. Adept at applying SQL, Python, and geospatial tools to support data-driven design, infrastructure planning, and informed decision-making.*

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## PROFESSIONAL EXPERIENCE

### Connect Communications Pvt Ltd Karachi

(January 2025 to Present)

#### JUNIOR GIS ENGINEER

- Designed and optimized **fiber optic cable routes** using GIS-based network planning tools to ensure cost-effective and efficient deployment.
- Collected, analyzed, and maintained **spatial data** to support accurate fiber network planning, construction, and maintenance.
- Developed and updated **fiber route maps, Single Line Diagrams (SLDs), and splicing plans** to guide field teams and contractors during installation.
- Integrated **field survey data, as-built drawings, and engineering inputs** into GIS platforms for real-time tracking and future expansion.
- Conducted **right-of-way (ROW) and feasibility analyses**, evaluating terrain, utilities, and environmental constraints to identify optimal fiber paths.
- Created **dashboards, outage maps, and status reports** to monitor network performance and assist in proactive maintenance.
- Performed **QA/QC of fiber network data** to ensure compliance with engineering standards, industry regulations, and project specifications.
- Collaborated with **network planners, engineers, and construction teams** to refine fiber designs and resolve routing challenges.
- Maintained and managed **fiber asset databases** to support inspections, audits, and future network upgrades.

#### TECHNICAL ENVIRONMENT:

- GIS Applications: ArcFM, ArcMap, ArcGIS Desktop/QGIS, , Google Earth.
- Microsoft Applications: MS Word, MS Excel, MS Paint, MS PowerPoint, MS Visio.
- Database: SQL, ArcEnterprise.
- Layout Software: ArcMap, AutoCAD, MS Visio.

### TPLMaps Pvt Ltd Karachi

(April 2019 to Jan 2025)

#### SENIOR GIS DIGITIZER

- Utilized QGIS and its suite of tools to perform Quality Assurance (QA) and Quality Control (QC) of spatial data and database records.
- Designed and executed **SQL spatial queries** to validate topology, detect overlaps/gaps, and ensure attribute accuracy within large geodatabases.

- Managed and maintained **spatial databases** (PostGIS/SQL Server/SQLite), implementing indexing and optimization techniques for efficient data retrieval.
- Conducted thorough analysis of spatial datasets to ensure **data accuracy, consistency, and integrity**, developing standardized QA/QC procedures and protocols.
- Employed **SQL-based data validation** and QGIS tools for error detection, anomaly identification, and automated reporting.
- Digitized geographic data, created detailed maps, and synchronized updates between GIS layers and underlying **relational databases**.
- Collaborated with cross-functional teams to identify data discrepancies and resolve issues through **database-driven workflows**.
- Provided training and support to team members on best practices for **SQL data management, QA/QC processes, and spatial database optimization**.
- Contributed to the enhancement of GIS workflows by integrating **SQL automation scripts**, streamlining data processing and analysis.
- Successfully implemented advanced QA/QC procedures that improved **data reliability and decision-making capabilities** across multiple GIS projects.

#### ***TECHNICAL ENVIRONMENT:***

- GIS Applications: QGIS, Google Earth.
- Microsoft Applications: MS Word, MS Excel, MS Paint, MS PowerPoint.
- Database: SQL, Postgres

## **Season Master Engineering Pvt Ltd Karachi**

(August 2018 to March 2019)

### **COPPER FITTER**

- Expert in **installing, fitting, fabricating and repairing copper piping systems** for plumbing and HVAC applications.
- Skilled in **AutoCAD** for creating, editing, and managing copper piping layout diagrams and proposed routing plans. Assisted in identifying and resolving discrepancies in the mapping data to enhance system reliability.
- Proficient in developing **detailed copper pipe system drawings** to support accurate fabrication and on-site installation.

#### ***TECHNICAL ENVIRONMENT:***

- Microsoft Applications: MS Word, MS Excel, MS Paint, MS Visio.
- Drawing Software: AutoCAD, MS Visio.

## **Business Air Travel & Tours Karachi**

(January 2017 to August 2018)

### **ACCOUNTANT**

- Skilled in **managing full-cycle financial operations**, including accounts payable/receivable, reconciliations, and cash flow management for travel businesses.
- Prepared **budgets, forecasts, and financial statements**, ensuring accurate reporting and effective cost control for tour packages, ticketing, and agency operations.
- Monitored **sales, commissions, and vendor transactions**, verifying accuracy in airline, hotel, and travel service billings.

#### ***TECHNICAL ENVIRONMENT:***

- Microsoft Applications: MS Word, MS Excel, MS Paint, MS PowerPoint.
- Accounting Software: Excel, QuickBooks, Galileo.

# Shafa IT Solutions Karachi

(March 2015 to January 2017)

## DATA ENTRY OPERATOR

- Diligent and detail-oriented professional with a **keen eye for accuracy and efficiency** in data entry tasks.
- Proficient in **entering, verifying, and maintaining data** across spreadsheets, databases, and company systems.
- Skilled at **detecting and correcting errors**, ensuring data integrity and consistency.
- Capable of meeting **strict deadlines** while handling large volumes of data with speed and precision.
- Experienced in using **MS Office, Excel, and database software** to organize and update records effectively.
- Committed to **maintaining confidentiality** and safeguarding sensitive information at all times.

## . UFONE Karachi

(April 2014 to December 2015)

## DATA ENTRY OPERATOR

- Diligent and detail-oriented professional with a **keen eye for accuracy and efficiency** in data entry tasks.
- Proficient in **entering, verifying, and maintaining data** across spreadsheets, databases, and company systems.
- Skilled at **detecting and correcting errors**, ensuring data integrity and consistency.
- Capable of meeting **strict deadlines** while handling large volumes of data with speed and precision.
- Experienced in using **MS Office, Excel, and database software** to organize and update records effectively.

## TECHNICAL ENVIRONMENT:

- Microsoft Applications: MS Word, MS Excel, MS Paint, MS PowerPoint.

## ACADEMIC BACKGROUND

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<i>Degree</i>	<i>Major</i>	<i>Institution</i>	<i>Year</i>
BS	Computer Science	Virtual University of Pakistan	Enrolled
HSC	Pre-Engineering	Govt. Degree College 7D-2 North Karachi	2015
SSC	Computer Science	The Islamic Vision School	2013

## CERTIFICATION

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- *Certification in WordPress Development from Cognitive Classes (online).*

- *Certification in Front End Development from Cognitive Classes (online).*
- *Certification in AutoCAD from Cognitive Classes (online).*
- *Certification in Data Analytics & Business Intelligence from Cognitive Classes (online).*
- *Certification in Introduction to SQL Development & Database Management System from Cognitive Classes (online).*
- *Certification in Information Technology (CIT) from Info Channel registered from Sindh Board of Technical education Karachi.*
- *Certification in Introduction to Geographic Information System (GIS) from Cognitive Classes (online).*
- *Certification in Python for Data Science from Cognitive Classes (online).*

## **RESEARCH WORK EXPERIENCE:**

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- **Road Network Digitization:** *Digitized over 15,000 km of road networks out of 45,000 km in South Pakistan.*
- **Maps of Karachi:** *Developed a variety of thematic GIS maps, including society development layouts, fiber-optic route mapping, proposed expansion plans, and draw buried fiber network layers using AutoCAD, ensuring accurate representation for planning and implementation.*
- **Georeferencing:** *Georeferenced layout plans of Pakistan to align spatial data with real-world coordinates.*
- **Union Council (UC) Mapping:** *Designed detailed UC boundary maps by collaborating with UCMOs (Union Council Monitoring Officers) and incorporating local knowledge to ensure ground-truth accuracy.*
- **Community-Based Data Validation:** *Engaged with local stakeholders to verify administrative boundaries, road alignments, and land parcel data for improved reliability and decision-making.*
- **Attribute Data Management:** *Collected, cleaned, and maintained attribute data for roads, boundaries, and land parcels to enhance spatial database quality and usability.*
- **Thematic Analysis:** *Developed population density, infrastructure coverage, and service delivery maps to support urban planning and development projects.*
- **Solid Waste Management Mapping (SSWMB):** *Designed optimized garbage truck routing maps to improve collection efficiency across designated zones and mapped the location of garbage pins and collection points.*
- **Roadside Pole Digitization (UK):** *Digitized and mapped side poles along 500 km of road corridors using high-resolution satellite imagery and QGIS/ArcGIS tools.*
- **Plugin Development (Python Based):** *Designed and developed a custom QGIS plugin using Python & PyQGIS to automate category creation, improving mapping efficiency and reducing manual classification errors. Also built a QGIS plugin to detect and flag duplicate spatial features or records, ensuring data integrity and consistency across large GIS datasets.*

## **REFERENCES**

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It will be furnished upon request.