



# ARAFAT HASSAN

## GIS DATABASE ADMINISTRATOR

### CONTACT

✉ hassanarafat@yahoo.com

🌐 <https://arafathassan1.github.io>

### EDUCATION

2016-2018

THE OHIO STATE UNIVERSITY

- Bachelor of Science in Geographic Information Science

2013-2016

COLUMBUS STATE COMMUNITY COLLEGE

- Associate of Science in General Studies

### SKILLS

- Languages: Python, ArcGIS API for Python, C#, Java, HTML, CSS, Javascript
- ArcGIS Online, ArcGIS Enterprise, ArcGIS Monitor
- SQL Server, PostgreSQL, and Microsoft SQL Server Management Studio
- ArcGIS Pro, ArcMap, ArcView
- ArcGIS Arcade, Attribute Rules
- ArcGIS Hub, and ArcGIS StoryMaps
- ArcGIS Collector, Field Maps, Survey123
- AutoCAD
- Geometric Network, Utility Network
- QGIS
- Safe FME
- Salesforce

### PROFILE

Detail-oriented GIS professional with 5+ years of experience administering enterprise geodatabases, developing custom geoprocessing tools, and automating workflows across government and utility sectors. Proven expertise in ArcGIS Enterprise, SQL Server, and Python scripting to support complex GIS solutions and streamline data integration. Recognized for cross-functional collaboration, proactive problem-solving, and commitment to continuous learning in a rapidly evolving geospatial industry.

### WORK EXPERIENCE

- **Ohio Department of Natural Resources (ODNR)** MARCH 2023 - PRESENT  
GIS Database Administrator
  - Administer and optimize enterprise geodatabases (ArcSDE) via SSMS, including index rebuilds, statistics updates, data compression, and domain archiving
  - Upgrade ArcSDE versions and automate dataset migration; remove orphaned users and deprecated schema
  - Maintain and automate SQL Server jobs; assist with data migrations, application decommissioning, and archiving of unused spatial and non-spatial databases.
  - Develop scheduled scripts, triggers, views, and stored procedures to move and manage GIS data across environments
  - Create custom geoprocessing tools to enhance GIS application functionality and streamline cross-division workflows
  - Provide schema updates, attribute rule configuration, and process automation support; document database architecture and operational procedures
- **City of Westerville** February 2022 - March 2023  
Systems Analyst/GIS Administrator
  - Develops short- and long-term GIS plans to improve development, integration, and efficiency
  - Implements user-driven solutions, including custom WebGIS tools (e.g., print widgets)
  - Maintains ArcGIS Enterprise and Online through routine server updates and patches
  - Designs, manages, and supports GIS web applications for internal and external use
  - Updates core GIS datasets and web content to ensure data accuracy and accessibility
  - Coordinates GIS projects with internal teams, vendors, and external stakeholders (e.g., Tyler Technologies, FuturaGIS)
  - Leads special initiatives like aerial imagery transitions and GIS presentations (e.g., Citizens Academy)
  - Builds collaborative relationships with staff, vendors, and public partners
  - Pursues ongoing professional development to promote innovation
  - Establishes GIS standards and delivers training to ensure system consistency
- **NiSource-Columbia Gas of Ohio** January 2021 - February 2022  
GIS Technician
  - Ensure capital project compliance by reviewing pressure tests, materials, and facilities against engineering designs, company standards, and codes
  - Maintain and update GIS and work management systems using as-built documentation to reflect accurate gas system changes
  - Execute gas capital projects—new services, roadway relocations, and system improvements—on time and in alignment with department metrics