MD ARAFAT HASSAN

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EDUCATION

B.S. Geographic Information Sciences
The Ohio State University
- Minor in City and Regional Planning

SKILLS

- Bi-lingual: English and Bangla
- Proficient knowledge
  - C# (MS Visual Studio)
  - Java (Eclipse)
  - MATLAB
  - ArcGIS API for Python
  - Python (IDLE, ArcPy, PYQGIS)
  - SQL
  - HTML, CSS, JavaScript (MS Visual Code)
  - Safe FME
- Extensive knowledge
  - ArcGIS Online, ArcGIS Enterprise
  - ArcGIS Pro, ArcMap, ArcView
  - Attribute Assistant, Attribute Rules
  - AutoCAD
  - ArcGIS Data Reviewer
  - ArcGIS Server
  - ArcGIS Collector, Field Maps, Survey123
  - ERDAS Imagine
  - Geocoding, Georeferencing
  - Geometric Network, Utility Network
  - ArcGIS Hub
  - ArcGIS Arcade
  - Microsoft Access
  - Microsoft Office
  - PostgreSQL
  - Microsoft SQL Server Management Studio (SSMS)
  - QGIS
  - SolidWorks
  - SQL Expressions in ArcGIS Desktop
  - ArcGIS StoryMaps
  - Trimble R2 Integrated GNSS System
  - Workforce for ArcGIS
- Traits
  - Curious/Eager to learn
  - Driven/Determined
  - Enjoy taking initiative
  - Fast Learner
  - Goal-Oriented
  - Positive
  - Problem Solver
  - Team Worker

LICENSES & CERTIFICATIONS

- ESRI's ArcGIS Enterprise: Configuring a Base Deployment
- ESRI's ArcGIS Enterprise: Administration Workflows
- Google Data Analytics Professional Certificate
- Getting Started with the FME Platform
- FME Desktop Basic
- Futura Systems: Futura GIS II

CAREER SUMMARY

Ohio Department of Natural Resources (ODNR)   Columbus , OH
GIS Database Administrator | March 2023 to Present
- Manage, identify, and implement in SSMS/ArcSDE (Enterprise Geodatabase) any improvements that can be implemented in department-wide ArcSDE for optimal performance for GIS users by rebuilding indexes, clearing archived records, updating statistics, compressing via scripts, etc
- Manage and coordinate the maintenance of department-wide non-spatial database systems (SQL Server) using SQL Server Jobs in SQL Server Mangement Studio (SSMS)
- Plan, implement, and enhance new divisional geo-spatial database items such as vector and raster datasets
- Create new and enhances existing database elements in ArcSDE and non-spatial database with triggers, stored procedures, replication, etc
- Assist coworkers, different GIS departmental representatives, interns with any ArcSDE needs including updating schema, implementing attribute rules, automate tasks via scripts, creating views in SSMS, etc
- Document and diagram existing database environments, policies, and process for recordkeeping

City of Westerville   Westerville , OH
Systems Analyst/GIS Administrator | February 2022 to March 2023
- Develop short and long-range plans, goals, objectives and priorities to improve city's operational efficiency and effectiveness for GIS development and integrations
- Communicate with GIS users to determine current and future needs, and implements recommendations such as building a custom printing widget for WebGIS
- Maintain and monitor the health of the GIS servers including performing monthly server updates and patches for both ArcGIS Enterprise and ArcGIS Online
- Develop, administer, and maintain GIS web sites and applications for the internet and intranet
- Performs continuous updates of city's core GIS data and web site information
- Communicate with the general public, vendors, management, and contractors in order to coordinate GIS projects and administer the use of data such as Tyler Technologies: New World, FuturaGIS, etc.
- Coordinate and oversee various special projects and/or presentations in support of the GIS system including transitioning from current aerial imagery provider, giving GIS presentation at the Citizens Academy, etc.
- Establish and maintain effective working relationships with superiors, fellow workers, and vendor's representatives
- Review programs, white-papers, research papers, attend training courses, attend GIS Steering Committee meetings, etc. to develop innovative approaches to problem solving and to make recommendations
- Develop, document, and provide GIS standards, training and guidance for GIS users within the City of Westerville

NiSource-Columbia Gas of Ohio   Columbus, OH
GIS Technician | January 2021 to February 2022
- Analyze design capital project completion information by reviewing proper pressure tests, materials, and facilities to assure compliance with proposed engineering designs, company policies, practices, standards and other applicable codes
- Update/maintain GIS and work management system to accurately reflect gas system updates using given project as-built and related documentations
- Execute capital projects including providing new gas service to new customers, public roadway improvements and relocations, gas system improvement and maintenance in a timely manner that adheres with the department metrics
- Proactively collaborate with leaders, co-workers, and key business partners with planning
- Assist co-workers with executing their capital projects
- Continuously learning about upcoming GIS news and tools to keep up with the industry

City of Canton Water Department   Canton, OH
GIS Analyst/Engineering Technician I | May 2019 to January 2021
- Maintain and update enterprise GIS databases with new/existing water distribution system data in a Geometric Network and CMMS
- Perform quality assurance for the water distribution system data from multiple sources (field workers, historical records, engineering drawing, and AutoCAD drawings)
- Initiator of the organizational system that keeps records of the waterline projects including creating as-built drawings and end of the year cost reports
- Apply hosted feature layers in ArcGIS Pro to append next day assignments in Workforce for ArcGIS of water assets verification for interns
- Create web maps and applications such as dashboards by utilizing ArcGIS Online
- Utilization of Workforce for ArcGIS, Collector, and Survey123 app to perform data collection
- Perform in field data collection of GPS data from new/replaced water valves, fire hydrants, curb stops, and fittings using Trimble products
- Provide teaching and mentorship to GIS interns
- Assists with tech support to field workers and troubleshoot with the county GIS Department