Ashish Mahaur

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GIS Support Specialist at PBC Fire Rescue. Awarded graduate certificate in Geoinformatics for advanced mapping and GIS analysis. Seeking **full-time position, Open for relocation (OPT EAD Approved)**

PROFESSIONAL EXPERIENCE

GIS Support Specialist - Palm Beach County Fire Rescue, Florida   Feb 2025 - Present
- Resolve CAD map-related issues (incorrect addressing, routing) to ensure quick rescue response.
- Assist with bimonthly Intergraph CAD map builds in Geomedia, automating locator tool creation with ModelBuilder to streamline workflows.
- Provide CAD map support in the GIS Analyst's absence, including Map Builds, PLY file creation, and troubleshooting.
- Collaborate on drone project for fire station construction timeline, enhancing spatial data visualization and project planning using Esri Site Scan.
- Develop specialized maps and spatial analysis products using emergency call data and PBC GIS data for departmental operations.
- Design and deploy web apps to improve GIS accessibility and support data-driven decision-making across Fire Rescue.

Graduate Research Assistant (Part-time) - Remote Sensing and GIS lab, Michigan Tech   Sept 2023 - Jan 2025
- Processed and analyzed terabytes of LiDAR data from NSF NEON and NASA GEDI, utilizing Python packages such as Rasterio, GeoPandas, NumPy, and GDAL within a Conda environment.
- Developed and trained machine learning and deep learning models using Scikit-Learn and PyTorch to enhance biomass estimation for the NASA GEDI project.

GIS Intern - City of St. Peters, Missouri   May 2024 - Aug 2024
- Worked with various municipal departments to develop web apps on ArcGIS Enterprise and AGOL
- Supported IT Department for transition from ArcMap to ArcGIS Pro by training GIS users
- Assisted in upgrading Enterprise server for performance upgrade and fixing infrastructure bottlenecks

EDUCATION

Michigan Technological University, Houghton, Michigan   Aug 2023 - Dec 2024
MS, Integrated Geospatial Technology, GPA 3.9 / 4.0

University of Delhi (DU), Delhi, India   Jul 2013 - Jul 2018
BSc + MSc, Geology, Percentage: 70% and 66% (First Division)

CERTIFICATIONS

Geoinformatics, *Graduate Certificate* – Michigan Technological University   Aug 2023 - Apr 2024
- Geodatabase design, Change detection, Land classification, Least Cost Path Analysis (LCPA)
- Workflow ModelBuilder, GIS project budget management, Web mapping and ArcGIS Online, Data QA/QC

SPECIALIZED SKILLS

Software: ArcGIS Pro, ArcGIS Server, ArcGIS Online, ArcGIS Enterprise, MS SQL Server, Survey123, FieldMaps, QuickCapture, Experience Builder, Dashboard, StoryMaps, Intergraph CAD, Geomedia, QGIS, ERDAS Imagine, Trimble Business Center
Programming: Python, R, Arcade, MATLAB, GIT, Julia, JAVA, MS SQL, Oracle DBM, HTML, CSS

LEADERSHIP & AWARDS

IMAGIN 2024 Graduate Scholarship - Michigan   Apr 2024
- In recognition of outstanding student scholarship in Geographic Information / Geospatial Sciences

Student Assistant, Esri Developer Summit 2024 - Palm Springs, CA   Mar 2024
- Work with Esri team to assist in monitoring technical and demo sessions, registrations, and conference
- Attended technical sessions on GeoAI, Geospatial Deep Learning, ArcGIS Enterprise, and Python for GIS

RESEARCH PUBLICATION

- Mahaur, A. *"Aboveground Biomass Estimation Using Deep Learning: Insights from NEON Ground-Truth Data and Simulated GEDI Waveforms."* (https://doi.org/10.37099/mtu.dc.etdr/1861)   Dec 2024