Rezwan **Ahmed**

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Summary

I'm a full-stack Developer with a strong background in Python, Django and JavaScript, specializing in Remote Sensing, GIS and WebGIS. I'm passionate about utilizing spatial data for innovative solutions and creating dynamic web-based mapping applications. Currently working with Survey of Bangladesh to rebuild the National Spatial Data Infrastructure (NSDI) of Bangladesh.

Work Experience

Survey of Bangladesh   *Dhaka, Bangladesh*

WEB DEVELOPER (FULL-STACK)   *Dec. 2022 - Present*

- Currently tasked with re-building the National Spatial Data Infrastructure (NSDI) of Bangladesh.
- Updated Django 2.2 legacy code base to Django 4.0 and replaced Geonode with a custom built Map Engine.
- Setup and configured Microsoft Windows Server 2022 for deployment of the new NSDI.
- The developed Map Engine performs 67% faster than the previous version.
- Made the UI/UX of the website more user friendly and intuitive.
- Added dashboard and 3D mapping functionalities to the new NSDI.

SuperMap GIS   *Dhaka, Bangladesh*

TECHNICAL INTERN   *Oct. 2022 - Dec. 2022*

- Wrote a GeoJournal article covering location pattern of Tesla Supercharger.
- Led a team for data collection of developing countries.
- Collected, managed, cleaned and updated GIS data of Uzbekistan and Kazakhstan.
- Gained competency with SuperMap GIS software.

University of Dhaka   *Dhaka, Bangladesh*

GIS EXPERT   *Sep. 2021 - Feb. 2022*

- Performed feasibility study for suitable cyclone shelter sites and system of lightning protectors infrastructure.
- Identified and digitized 5000+ possible geographical locations to install the lightning protectors/ devices.
- Managed database and created location maps to install the lightning protectors.
- Made use of QGIS software to perform various spatial analysis.

British Council   *Dhaka, Bangladesh*

INVIGILATOR   *Dec. 2020 - Present*

- Carried out many A-Level and O-Level exam duties.
- Received training in Child Protection, Data Protection, Health & safety.

Skills

Programming	Python, JavaScript, Earth Engine, Node, PostgreSQL, GeoNode
GIS Software	QGIS, ArcGIS Pro, ArcGIS Desktop, ERDAS IMAGINE, Global Mapper, GDAL
Data Analysis	Numpy, Pandas, Matplotlib, Geopandas, Tableau
Web Development	Django, Django REST Framework, Vue JS, Hugo, FastAPI, Bootstrap, Tailwind, CSS, HTML5
DevOps	Git, Github Actions, Linux, Windows Server 2022, Docker, AWS EC2, Route53, Nginx, Selenium
Others	LaTeX, Adobe Illustrator, Adobe Photoshop, Microsoft Office

Education

University of Dhaka   *Dhaka, Bangladesh*

B.S. IN GEOGRAPHY & ENVIRONMENT   *Feb. 2018 - Dec. 2021*

- **Minor** in Geology, Soil, Water & Environment and Botany
- **Courseworks:** GIS, Remote Sensing, Physical Geography, Climatology, Statistics, Environmental Analysis
- **CGPA:** 3.60

Awards & Achievements

2022	**Champion**, Poster Presentation, National Environment Olympiad
2022	**1st Runner-up**, Poster presentation, World Environment Day 2022