

Sourav Karmaker

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SKILLS

SPATIAL ANALYSIS | Proximity • Terrain • Network Analysis • Modeling
REMOTE SENSING | Image Processing • Indices • Object Extraction
WEBGIS | ArcGIS online • Cesium ION • HTML • CSS • PHP • Java Script
• SQL • PostgreSQL
PROGRAMMING | Python (Geopandas, Fiona, Arcpy)
MISCELLANEOUS | Mapping • Surveying App Configuration • BIM
• Geodata Management • 3D Visualization • Photogrammetry
SOFTWARE | Qgis • ESRI ArcGIS • SAGA GIS • ERDAS IMAGINE
• Trimble Inpho • FME Workbench • SQLite • QField
SOFT SKILLS | Technical Understanding • Communication • Teamwork

EXPERIENCE

HOCHSCHULE FÜR TECHNIK STUTTGART | Student Assistant (HiWi) |
Apr 2022 – Feb 2023, Stuttgart, Germany
• Geospatial workflow preparation
• Worked with server side PostgreSQL master theses database

QUANTIFYING NATURE | Internship | Oct 2022 – Dec 2022, London, UK
• Geospatial application development
• Climate change and Human hazard data modeling

ORIENTAL CONSULTANTS GLOBAL LTD | GIS Engineer | Apr 2021 –
Oct 2021, Dhaka, Bangladesh
• Developed GIS databases for site planning and highway construction
• Data procurement, ensuring data accuracy and completeness
• Prepared and validated survey data using GIS software and tools
• Created Land Acquisition Plans and developed maps

CHRISTIAN COMMISSION FOR DEVELOPMENT IN BANGLADESH |
GIS Specialist | Jun 2020 – Mar 2021, Dhaka, Bangladesh
Project Progress and Monitoring Phase

- Conducted surveys and ensure data accuracy for Land Acquisition and construction
- Collaborated with internal teams and external consultants to ensure project progress
- Communicated effectively about GIS system issues, analyze problems, and suggest solutions to users
- Assisted in the creation of geospatial databases using aerial photography, satellite imagery, topographic & administrative maps, and other documents

GEO-PLANNING FOR ADVANCED DEVELOPMENT | Assistant GIS
Specialist & Internship | Jan 2018 – May 2020, Dhaka, Bangladesh
• Employed ETL for data interoperability and geospatial data management
• Developed Vulnerability Assessment Universal Model that considers the 8 most vulnerable sectors in Bangladesh
• Performed geo-statistical analysis, managing project databases, and preparing maps
• Performed optical and drone image processing and classification
• Presented project data in an interactive WebGIS platform for visualization
• Method optimization for GIS Infrastructures and modeled electrical utility network diagrams

EDUCATION

HOCHSCHULE FÜR TECHNIK STUTTGART
M.Sc in Photogrammetry and
Geoinformatics | 2021-2023 | Stuttgart,
Germany
GPA: 2.1 (Good)

PATUAKHALI SCIENCE AND TECHNOLOGY UNIVERSITY

M.Sc in Disaster Management major
in Geo-Information Science and Earth
Observation | 2019-2020 | Patuakhali,
Bangladesh
GPA: 1.3 (Very Good)

B.Sc in Disaster Management | 2014
– 2018 | Patuakhali, Bangladesh
GPA: 1.7 (Good)

LANGUAGE

German- B1
English – C1

HONORS & AWARDS

**DAAD Scholarship – Development
Related Postgraduate Courses** |
For top 8 international students | 2021
-2023 | German Academic Exchange
Service

**First Place Award: Simulation in the
City: Summer School** | Competition
among 40 international students | 2022
| Stuttgart University of Applied
Sciences

**Secondary School Certificate Board
Scholarship** | 2011 | Ministry of
Education | Bangladesh

COURSEWORK & RESEARCH

Geostatistics and Surface Modeling
Geodata: capture, sources, and
standards
Internet GIS and Visualization
Computer Programming
Interpolation and Digital Terrain Models
RADAR

INTERESTS

• Travelling • Running • Skill
Development