Resume of Sunbeam Rahman

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Portfolio**:** https://rahmansunbeam.github.io

Education

o Master of Geographic Information Systems (MGIS), Department of Geography, University of Calgary, 2500 University Drive NW, Calgary, AB, Canada, Sept 2023 to Apr 2025

o MS in Geography and Environment, Department of Geography and Environment, University of Dhaka, Dhaka, Bangladesh, 2009

o BSc in Geography and Environment, from the Department of Geography and Environment, University of Dhaka, Dhaka, Bangladesh, 2008

Employment history

o Cryosphere-Climate Research Group, Department of Geography, University of Calgary, AB, Canada as **Research Assistant,** from Feb 2025 until today

o School of Public Policy, University of Calgary, AB, Canada as **Graduate Assistant (Research)**, from June 2024 to Sept 2024

o Worked as GIS Professional for various iNGOs and Government agencies in Bangladesh from Jan 2012 to Aug 2023

Professional certification

o Certified Associate In Project Management (**CAPM®**) by Project Management Institute, Jul 2025, Certificate # 4163967, Credly URL

Few key accomplishments

Employer: Department of Geography, University of Calgary, Canada

Key accomplishments:

I work at the Cryosphere-Climate Research Group in the Department of Geography, a research lab focusing on permafrost, sea ice, glaciology, and climate change. Currently, I'm expanding my MGIS Capstone project paper on Arctic Amplification and Chinook wind dynamics in Southeastern Alberta. I am processing hourly ERA5-Land data of approximately 20M km^2 of North America (since 1950) to generate climate scenarios and pattern maps. Currently, I am researching Arctic Sea ice using Cryosat-2 InSAR data.

Technologies used: ArcGIS Pro, Python (XArray, ArcPY), Meteorological data management

Employer: Regional Integrated Multi-Hazard Early Warning System for Africa and Asia (RIMES), Bangladesh

Key accomplishments:

This role focused on developing and optimizing a geospatial database for weather, climate, and sector-specific data, employing CMIP6 data for various spatial analyses and Python scripting. It produced over 10 historical climate scenarios for Bangladesh (yearly, decadal, etc.) for over 8 climate parameters to support the development of a comprehensive Decision Support System. Additionally, adept at developing climate trends and impact scenarios for extreme weather events on the livestock sector, covering 4 species and 3 commodities, while also proficient in gathering, cleaning, managing, and ingesting complex data for comprehensive sector-specific analyses.

Technologies used: ArcGIS Pro, Python (XArray, ArcPY), Docker, SQL

Employer: ACI Ltd, Bangladesh and Netherlands Space Office

Key accomplishments:

Led management of ArcGIS Enterprise, EGDB, and ArcGIS Portal to develop spatial data API endpoints using Python. Supervised a team of 3 in creating a national six-day interval REST API for rice paddy growth stages from Sentinel-1 satellite data. Coordinated with external partners, managed 20+ hours of training, and supported the development of an Android app ('Fosholi', currently non-functional) for farmer emergency response. Also helped Directing integration of 12,000+ Survey123 training data points and field team coordination.

Technologies used: ArcGIS Enterprise, ArcGIS Pro, Python, ENVI, eCognition, SQL

Freelance and other accomplishments:

As a GIS expert [on Fiverr](#), I processed over 5,000 m² of LiDAR and hyperspectral RPAS data for forest health monitoring, species identification and classification, and terrain analysis using eCognition, ENVI, LAStools, and Python. As part of my MGIS study, I completed a number of high-quality web apps using ArcGIS Online Story Map and Experience Builder.

Language proficiencies

- English: Professional working proficiency
- Bangla: Native user
- French: Intermediate (Diplôme d'Études en Langue Française, DELF B1 certified)