Blessed Annor Appiah

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ABOUT ME

I am a high-achieving geospatial analyst, ranked in the top 3% of my undergraduate Geography program, with a passion for addressing environmental challenges such as vegetation loss, climate change, and pollution. With intermediate GIS expertise and a strong understanding of environmental systems, I specialize in creating data-driven solutions for sustainable management. My ability to transform complex datasets into actionable strategies drives impactful, long-term change.

EDUCATION AND TRAINING

06/09/2019 – 24/08/2023 Kumasi, Ghana
BA. GEOGRAPHY AND RURAL DEVELOPMENT Kwame Nkrumah University of Science and Technology

Modules
Geospatial Information System, Cartography, Remote sensing, Resource management, Spatial planning, Environmental magement system, Basic statistics and Research Methods.

Website https://www.knust.edu.gh/ | **Final grade** First class | **Level in EQF** EQF level 6 |

Thesis Occupational health and safety in small scale agriculture

WORK EXPERIENCE

01/10/2024 – CURRENT Accra, Ghana
GEOGRAPHY TEACHER RIGHT CHILD ACADEMY

- Organized a GIS Day event supported by **ESRI** to engage students in exploring geospatial technologies, fostering interest in GIS and its future applications.
- Inspired a newfound enthusiasm for geography and environmental activism among students, leading to improved class attendance and engagement within the first month of teaching.
- Integrated ICT tools into geography lessons, enhancing students' understanding through interactive learning and digital resources.

01/11/2023 – 30/09/2024 Tema, Ghana
GIS ANALYST TEMA DEVELOPMENT COMPANY LIMITED

- **Compiled a national database of shapefiles** for settlements, industries, and natural reserves in Greater Accra, supporting effective spatial planning.
- **Mapped bike lanes and pavements in Florida, USA,** to aid urban planners in improving accessibility, demonstrating expertise in GIS digitization of public infrastructure.
- **Evaluated the impact of the 19.5-km Accra-Tema motorway expansion,** recommending a minimal expansion radius to balance infrastructure needs with reduced community displacement.
- **Analyzed land cover changes in Tema, Ghana,** revealing a 20% decline in vegetation, and provided actionable insights for urban planning and conservation
- **Streamlined land verification processes** by translating architectural drawings into geospatial data using AutoCAD and GIS tools. Utilised AI to simplify spatial alignment, generating precise coordinates for efficient surveying and planning

Website https://tdc.gov.gh/index.htm

03/09/2021 – 30/10/2021 Ashaiman, Ghana
URBAN PLANNER ASHAIMAN MUNICIPAL ASSEMBLY

- Led urban geospatial data collection for a **GIZ-funded Street Naming and Property Addressing Project**, leading to a 15% increase in municipal revenue collection.
- Led a team of five to present GIS-based analyses of the environmental impacts of major building projects to the Head of Department
- Mapped bus stops along the Anloga Junction–Sofoline route in **Kumasi**, creating a transit map that improved route planning and reduced sudden-stop accidents by 80%. Gained hands-on experience in field data collection for transit systems.
- Assessed groundwater vulnerability in **Katamanso Municipality** using the DRASTIC model, identifying high-risk areas for contamination and recommending mitigation measure
- Mapped accident hotspots in **Ashaiman Municipality**, identifying the Ashaiman traffic intersection, where 15% of all accidents occurred. The findings led to policy changes and the repair of traffic lights, improving road safety.

PUBLICATIONS

2024
Temporal Analysis of Vegetation Loss in Obuasi Using Normalized Difference Vegetation Index Data From 1990 To 2024

I conducted an analysis on the rapid depletion of forests in Obuasi due to galamsey (illegal mining) and other factor. Utilised spatial data to illustrate the graphical loss of vegetation and model future forest scenarios if current degradation trends persist, raising awareness of Ghana's critical forest loss.

Appiah, B. A. (2024). Temporal Analysis of Vegetation Loss. In GHIGCON-2024, UDS: Abstracts (p.15)

CONFERENCES AND SEMINARS

08/10/2024 – 11/10/2024 Sunyani
GHIGCON-2024

Invited by the Ghana Institute of Geoscientists to present my research findings at an international conference held at the University for Development Studies (UDS) in Sunyani, which was attended by over 1,000 participants. My presentation focused on the rapid loss of forests in Obuasi due to galamsey (illegal mining) and included predictive models illustrating the future state of the forests if current trends continue.

13/09/2024 – 13/09/2024 Accra, Ghana.
LCOY 2024

Presented at the Local Conference of Youth (LCOY), where I discussed climate finance and green jobs. My presentation focused on how geospatial technology and data analysis are creating job opportunities, particularly for the youth, in the context of sustainable development and the green economy.

HONOURS AND AWARDS

05/10/2024
Personality of the year – National Service Personnel Association

Awarded for exemplary dedication and positive impact among 122,275 national service personnel.

Link https://drive.google.com/file/d/1X2tc8X5x0vuMPic6vV0K0rFRpmcKZaJI/view?usp=sharing

VOLUNTEERING

24/07/2024 – CURRENT Ghana
Information Technology Officer - Carifika global

Responsible for maintaining system functionality, managing network security, and providing technical support to enhance operational efficiency.

Link https://www.carifika.org

07/07/2024 – 07/07/2024 Accra
National Tree Planting and Schools Outreach Program

Planted diverse tree species region-wide and led an educational session on the significance of the green earth vision for JHS students at Katamanso Public School

Link https://www.linkedin.com/posts/blessed-annor-appiah_on-the-national-tree-planting-day-organised-activity-7205868533753229312-VDr9?utm_source=share&utm_medium=member_desktop

09/03/2024 – 09/03/2024 Katamanso
Municipal-wide clean up and free health screening exercise

Organized a community clean-up exercise and free health screening event, benefiting over 100 underprivileged residents in my municipality. Coordinated efforts with the Municipal Chief Executive (MCE) and Member of Parliament (MP), who attended and supported the initiative.

LANGUAGE SKILLS

Mother tongue(s):   **ASANTE TWI**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
FRENCH	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

HTML, JavaScript, MySQL, NGINX | ArcGIS, ESRI, QGIS, EPANET, Google Earth Pro | Microsoft Office | programming: Python, MATLAB and SQL

HOBBIES AND INTERESTS

Wildlife and Outdoor Activities, Community Outreach and Youth Mentorship