**BELINDAR OCHILLOH**

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**SUMMARY**

A dedicated and industrious professional with 1 and half years of experience in field data collection and analysis, including GIS-based studies who can adhere to instructions. I am self-motivated, ambitious, innovative, analytical, a quick learner, and a genuine team player with strong interpersonal skills. I aspire to work in a stimulating and gratifying setting that will enable me to apply my academic expertise, fostering personal and organizational advancement.

**EDUCATION**

**Pwani University** | Bachelor of Science, **Sept 2020 – Nov 2024**

* Major in Geography
* Coursework: GIS and Remote Sensing, Urban Planning, EIA and Survey
* Member of the Environmental Club
* Cumulative **GPA: 3.55**

 **EXPERIENCE**

**Kenya Marine and Fisheries Research Institute May 2024 - Present**

*Geographic Information System Analyst*

* Conducted field data collection using GPS surveys and remote sensing imagery to gather environmentally relevant spatial data.
* Performed GIS analyses including proximity, overlay, spatial statistics, and network analysis to evaluate environmental impacts related to fisheries and aquaculture.
* Attained 98% positive feedback based on the conducted door-to-door satisfaction surveys to educate coastal local communities on the current fish farming method (Integrated Multi-Trophic Aquaculture) and was praised for increasing the adoption by 50% in 2024.
* Presented analytical findings at national conferences and workshops, preparing detailed reports and presentations on environmental research.
* Analyzed spatial data to support urban planning and assess environmental implications in infrastructure projects.
* Verified and enhanced data accuracy through on-site field surveys, ensuring the integrity of environmental datasets.
* Developed 2D and 3D models to effectively communicate GIS and CAD data via web and mobile applications.
* Improved API response times by 30% by redesigning and revising databases.
* Developed a chatbot that helped a client reduce costs by 240% in their customer service department.
* Spearheaded a revamp of the tech stack that resulted in a 40% decrease in server costs.
* Created GIS maps that saved 10% in project costs.
* Designed and implemented an advanced geospatial data fusion algorithm that improved natural disaster response times by 50% across a tristate area
* Developed a machine learning algorithm that improved land-use classification accuracy by 30%.
* Implemented an automated quality assurance process for geospatial data, increasing data accuracy by 35% and reducing manual review time by 60%.

**Ministry of Land Jun 2023 – Augst 2023**

*Attachment*

* Assisted with the intake and processing of land applications, ensuring adherence to regulatory requirements.
* Verified land registration documents and captured critical data to support compliance with land registration standards.
* Executed drawing tasks including digitizing and preparing Physical Development Plans by integrating field-collected geographic data
* Supported site inspections and field surveys using GPS and total stations, contributing to accurate mapping and regulatory adherence.

**SKILLS**

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| --- | --- | --- |
| **Database Programming Languages**   * HTML/CSS, JavaScript * Python, R, SQL | **Software Tools**   * Microsoft Office Suite (Ms. Word, Excel, Power Point) * ArcMap, QGIS, AUTOCAD, * Kobo Collect, ODK (Open Data Kit) | **Communication and Interpersonal**   * Effective Communicator * Decision-Maker and Problem-solver |



**CERTIFICATIONS**

* Geographic Information System (GIS) Certificate Awarded by the ESRI Company
* Certificate of appreciation from Kilifi Climate Change Organization for participating in mangrove planting initiatives
* Undergraduate Student Service Award, awarded by the Department of Geography and the Undergraduate Student Community
* Environmental Stewardship Award

**LANGUAGES**

* English ( C1 Advanced)
* Kiswahili (C1 Advanced)

**ACCOMPLISHMENTS**

* Conducted a field study sponsored by the UN at Tana River County to assist research scientists in qualitative and quantitative analysis from 20th Sept 2024 - 29th November 2024.
* Participated in Mikoko Pamoja Initiative as a mangrove planter from10th March 2024- 26th April 2024 which was funded Kenya Marine Fisheries and Research Institute (KMFRI).
* Contributed 30 % to a research project that focused on the impact of urbanization on access to clean water resources in Ganze village, Kilifi County from Jan 20th to April 20th 2025.
* Collected and analyzed spatial data on water infrastructure and population density using GIS software (ArcGIS).
* Conducted Kenya National Election as a Clerk of the Independent Electoral and Boundaries Commission (IEBC) in August 2022.
* Participated as an Enumerator in the Kenya Population Census in 2019.
* Collaborated with a team of volunteers to organize and execute a community clean up drive at the Baobab Beach in Kilifi that was Sponsored by the Beach Management Unit(BMU) in 2023.
* Communicated effectively with community members to build trust and encourage participation in health related initiatives Organized by the OGRA Foundation in Osani Dispensary in 2022.