

# BINTA BARRIE

## CIVIL ENGINEER

### Profile

I am a civil engineer with a strong interest in innovation and a passion for integrating Machine Learning (ML) and Artificial Intelligence (AI) into engineering solutions. My background in hydrological modeling and water resource management has been solidified through my final year project, where I analyzed rainfall patterns and developed flood hydrographs for the Mambo Bridge watershed in Freetown, Sierra Leone. Using tools like ArcGIS and the SCS Curve Number method, I provided insights essential for designing sustainable water-related infrastructure. I am driven by a desire to apply innovative technologies to solve complex engineering challenges and am committed to continuous learning and growth in the fields of civil engineering, ML, and AI.



### Work Experience

2024 -  
Present

#### UNIPOD

Technical lead

- Led Zero Waste Lab operations within an innovation space, focusing on sustainable design, waste minimization, and circular economy practices.
- Facilitated the Unipod Green Solution Innovation Bootcamp, mentoring participants in designing sustainable solutions to environmental challenges.
- Hosted workshops on zero waste methodologies, mentoring innovators on sustainable practices and eco-friendly product development

2021 - 2022

#### Sierra Leone Roads Authority (S.L.R.A)

CIVIL ENGINEER INTERN

- Managed [engineering tasks, site inspections, and material testing], optimizing quality control and safety measures to enhance project timeline.
- Participated in completing a highway construction project, contributing to reducing traffic congestion in the targeted area.
- Daily report on site
- Estimate quantities and cost of material

2023

#### VEC Construction Groups

Site Supervisor

- Managed on-site logistics, including the delivery and storage of materials, ensuring the efficient use of resources.
- Addressed and resolved any on-site issues or challenges, including discrepancies in plans or delays, minimizing impact on the project schedule.
- Maintained accurate records of site activities, including daily logs, work progress reports, and incident reports.

2023

#### OPII

Traffic Volume Count

- Conducted traffic volume surveys at designated locations to gather data on vehicle counts, types, and peak traffic hours.
- Analyzed traffic flow patterns and identified trends to support transportation planning and infrastructure development projects.



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### Education

#### Fourah Bay College, University of Sierra Leone

B.ENG (Hons) in Civil  
Engineering

2018 - 2023

### Expertise

Autodesk Skills

Revit Architecture

Computer Software Skills

Comprehensive Site Investigation

### Language

English

### References

Provided on Request