# Antoinette Wangari

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## Education

**The Jomo Kenyatta University of Agriculture and Technology**

*Bachelor of Science in Geomatic engineering and Geospatial Information Systems*   **Sept 2019 – Dec 2024**
*Certificate in Web and Mobile application design and development*   **Jan 2019 – May 2019**

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## Relevant Coursework

- Spatial Data Science
- Database Design and Management
- Remote Sensing Applications
- Web mapping
- Drone Image Processing
- Land Survey

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## Experience

**Volunteer Mapper with Youth Mappers JKUAT chapter**   **Dec 2021 - Present**
- Worked with Kenya Red Cross to map remote areas prone to floods, improving access for Red Cross volunteers.
- Collaborated with the Clinton Health Access Initiative to map schools, facilitating HPV vaccination campaigns aimed at preventing cervical cancer in female students.

**GIS Consultant at StatsSpeak Group Limited**   **Feb 2024 – Present**
- Worked on social impact mapping projects, including education and health dashboards, identifying gaps, mapping resources, and generating insights.
- Created Geonode dashboards for pharmaceutical mapping, aiding businesses in identifying competitors, market opportunities, and potential collaboration with health facilities.
- Created Python codes for route and delivery optimization for a delivery company, improving efficiency.
- Conducted geospatial business intelligence analysis for an online business, analyzing customer segments, product preferences, and market potential.
- Worked on Air Quality monitoring project to identify areas with better air quality aiding in risk reduction.

**GIS Analyst at Kenya Agricultural and Livestock Research Organization**   **Jan 2023 – April 2023**
- Worked as an attaché on a crop yield estimation and crop type classification system for small-scale farmers in Kenya using Machine Learning techniques.
- Collaborated with a team to develop a Web GIS application for the deployment of the crop yield estimation system, improving access to yield prediction for farmers.

**Project Lead at Association of Geomatic and Geospatial Engineering Students**   **Oct 2023 – Oct 2024**
- Worked with a team to organize GIS Day, securing sponsors, managing finances, planning the event, and ensuring its overall success.
- Collaborated with a team, including Digital Earth Africa and Measurement Systems, to organize upskilling events for students.
- Worked with a team, chairing weekly meetings to facilitate skill-sharing among GIS students and enthusiasts, fostering a community of learning.

**Web Mapping Projects**
- Developed a web map for an irrigation scheme to track water productivity and its irrigation efficiency.
  **https://antoinettewangari1.github.io/Bura_Irrigation_Scheme/**
- Developed a web map to track the number of health facilities per ward to allow for resource mapping, and to show the different services offered by different health facilities.
  **https://antoinettewangari1.github.io/Health-Facilities-in-Nairobi/**

## Technical Skills

- **Mapping Tools:** Leaflet js, Openlayers js, Geoserver, Geonode, QGIS, PostGIS & PostgreSQL, ArcGIS.
- **Languages:** JavaScript, Python, R.
- **Developer Tools:** Vs Code, Jupyter Notebook, Google Collab.

## Extracurricular:

**Mentorship:** Geocode Connect Kenya Co-founder and Mentorship lead, training Geospatial students and GIS enthusiasts.