Rebecca Njoki Kamunya

Nairobi, Kenya | +254 115 222742 | rebeccancovers@gmail.com | https://rebeccan.netlify.app/

EDUCATION

Jomo Kenyatta University of Agriculture and Technology   **Main Campus**
B.Sc. in Geospatial Information Science   2020 - 2024
Attained Second Class Honors
- ***Dissertation***: Site Selection Prediction for Supermarkets Based on Multi-Source Spatial Data Using Machine Learning Techniques.

Moi Girls Isinya Secondary School   **Kajiado**
Kenya Certificate of Secondary Education (K.C.S.E)   2016 - 2019
Scored a **B+** and attained the following grades:
- Mathematics: B+
- English: B+
- Kiswahili: B+
- Biology: B-
- Chemistry: C+
- Physics: B-
- Geography: A-
- C.R.E: B+

Kajiado Hills Academy   **Kajiado**
Kenya Certificate of Primary Education (K.C.P.E)   2004 - 2015
Scored 383 marks and attained the following grades:
- Mathematics: B+
- English: A
- Kiswahili: A-
- Social Studies & C.R.E: A-
- Science: B+

WORK EXPERIENCE

Survey of Kenya   **Ruaraka**
GIS Student Attaché   *May 2023 – August 2023*
- Performed Cassini-UTM Coordinate Transformation on 50+ datasets, enhancing precise mapping for land management projects.
- Conducted Quality Control for Survey jobs, reviewed over 10 field notes and ensured consistency in spatial data.
- Plotted and manipulated spatial data using AutoCAD for over 10 projects, streamlining geospatial data analysis.
- Georeferenced and digitized 30+ features using ArcGIS, improving mapping accuracy by 15%.
- Collected spatial data using Total Station, handheld GPS and GNSS, enhancing data collection efficiency by 25%.

Jomo Kenyatta University of Agriculture and Technology   **Juja**
GIS Student Attaché   *May 2022 – June 2022*
- Worked with data collection tools such as SW maps to map eateries around JKUAT Campus.
- Conducted 3D construction of over 15 images using ERDAS, enhancing visual analysis for geospatial projects.
- Executed data cleaning, validation and transformation using ArcGIS.
- Developed flight plans using Litchi, DJIFlightPlanner and AutoCAD, improving data collection efficiency.
- Classified images using ERDAS Imagine & SNAP to analyse landcover, simplifying features and their attributes.

- Processed ground truth and satellite-derived data using GEE, ERDAS Imagine and SNAP for model training and validation.
- Assessed the quality and reliability of large-scale geospatial data products, such as land use/land cover (LULC) maps, weather and soil maps.

LEADERSHIP EXPERIENCE

Moi Girls Isinya Secondary School   **Kajiado**

C.U Librarian   *September 2017 – May 2018*
- Managed and organized a collection of over 100 books, improving the cataloguing process by 15%
- Curated and recommended books and media, increasing member engagement by 10%.
- Provided reference services to assist over 150 students with specific inquiries, and successfully located materials for 95% of requests.

Geography Ambassador   *February 2016 – November 2019*
- Served as a spokesperson for Geography during meetings with parents and teachers.
- Offered support and provided help and subject resources when needed.
- Tutored younger students in the subject.

CERTIFICATIONS
- **Microsoft Student Learn Ambassador (MLSA)** – Real Estate Price Prediction (2022)
- **JavaScript and React.JS** – Devtown (2023)
- **Disaster Assessment Using Synthetic Aperture Radar** – NASA(2023)
- **KAIROS** – Mission Campaign Network (2024)
- **Web Development** – eMobilis Technology Training Institute (In progress)

ACHIEVEMENTS
- Holder of a valid driver's license.
- Digitized over 100 features through the HOTOSM platform.
- Created a web app called **IDFinder** that enables Kenyan citizens to report and retrieve lost ID's using **MySQL**, **Bootstrap** and **Django** frameworks.
- Participated in the Bible Translation and Literacy 5km Walk held on 16th March 2024.

PROFESSIONAL BODIES
Student Member of Institution of Surveyors of Kenya (ISK)

SKILLS AND INTERESTS
Skills: ArcGIS; AutoCAD; ERDAS Imagine; GEE; R; Microsoft Office (Word, Excel, PowerPoint); HTML; CSS; Python; SQL; Django; Bootstrap; Canva
Interests: Content creation, volunteering, customer care, playing a guitar, singing, basketball.

REFEREES

Dr. Charles O. Gaya, Ph.D.
Director: Directorate of performance
Contracting and Appraisal (DIPCA)
Lecturer: Department of Geomatic
Engineering and Geospatial Information
Systems (GEGIS)
Cell Phone: +254-722 570627
P.O. Box 62000-00200, Nairobi
E-mail: cgaya@jkuat.ac.ke

Rev. DR. John Karihe
PhD HRM, JKUAT
Cell phone: 0721249123
E-mail: jkarihe@jkuat.ac.ke

The Principal
Moi Girls Isinya Secondary School
Phone number: +254 704 541 233
E-mail: info@moigirlsisinya.com