Sylvia Chebet

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Geospatial Engineer | Web Developer

I am a Geospatial Engineering graduate with a strong passion for software engineering. Having completed my Software Engineering studies at Moringa School, I am proficient in Python with Flask and JavaScript-based programming. I have experience in team-building, leadership, and project management, driving innovation and efficiency in tech-driven companies. While I leverage my GIS expertise, I am also exploring full-stack web development and continuously seeking opportunities to build impactful, dynamic applications across various domains.

TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript, SQL
- **Web Development:** HTML, CSS, Tailwind CSS, React.js, Angular, Flask
- **GIS Tools & Frameworks:** QGIS, ArcGIS, OpenLayers
- **Databases: SQLite,** MySQL, AWS RDS
- **Cloud Platforms:** AWS (RDS, EC2, S3)
- **Version Control:** Git, GitHub

TECHNICAL PROJECTS

Biashara First Healthcare - https://github.com/SylviaT01/Biashara-First-Healthcare | Biashara First Healthcare
A platform designed to streamline the connection between businesses and healthcare facilities.
- **Business Registration**: Register business details like type, contact info, and address.
- **Interactive Map**: Powered by OpenLayers for location-based searches.
- **Tech Stack**: React.js, Flask, Tailwind CSS, SQLite, SQLAlchemy, OpenLayers.js

Nairobi Hospitals Map- https://github.com/SylviaT01/Nairobi-Hospitals-OpenLayers |
https://nairobi-hospitals-open-layers.vercel.app/
An interactive web application that visualizes hospital locations in Nairobi using OpenLayers.
- Displays hospitals with custom markers and Nairobi County boundary.
- Features an interactive map, legend, and GeoJSON integration.
- **Tech Stack**: React.js, OpenLayers, Tailwind CSS, GeoJSON

UrbanBazaar- https://github.com/SylviaT01/UrbanBazaar | Urban Bazaar
A web-based e-commerce platform designed for seamless online shopping across multiple product categories.
- **User Authentication**: Login, registration, and password recovery.
- **Product Browsing**: Search and filter products by category, brand, or name.
- **Shopping Cart**: Add, view, and remove items with a simulated checkout.
- **Admin Dashboard**: Manage products, users, and view analytics.
- **Tech Stack**: Flask, ReactJS, SQLAlchemy, Figma for wireframes

Crop Analysis - https://github.com/SylviaT01/Crop-Analysis | https://crop-analysis-umber.vercel.app/
An interactive web application for crop analysis using satellite imagery. It integrates Leaflet for map visualization and Google Earth Engine (GEE) for processing and analyzing satellite data. Users can explore vegetation indices.
- **Features:** Interactive map, satellite imagery analysis, dynamic visualization of vegetation indices.
- **Tech Stack:** React.js, Leaflet, Python, Google Earth Engine (GEE), Earth Engine API.

EXPERIENCE

ICT Authority   Nairobi, Kenya
Network Support Analyst   01/2025- Present
- Monitor, manage, and maintain the performance, reliability, and security of ICT Authority's network infrastructure to ensure optimal uptime and seamless connectivity.
- Conduct real-time network diagnostics and troubleshooting to address technical issues and minimize downtime.
- Respond to system alerts and incidents, implementing timely resolutions to ensure adherence to SLA commitments.

SMACHS Foundation   Karen, Kenya
Assistant Monitoring and Evaluation Officer   09/2023 - 12/2023

- Designed Monitoring and Evaluation (M&E) frameworks for projects, resulting in more structured data collection.
- Collected, analyzed, and interpreted data related to project activities, improving project implementation.

OrthoMap Solutions Ltd   Nairobi, Kenya
Assistant surveyor   07/2023 - 08/2023
- Conducted topographic surveys using drones for photogrammetric mapping, increasing survey accuracy.
- Executed thermal imaging surveys using radiometric thermal drones, aiding in heat distribution analysis across landfills

Karuri Water and Sanitation Company   Kiambu, Kenya
GIS Analyst   01/2023 - 06/2023
- Mapped the water supply network in Kiambaa sub-county.
- Generated maps using GIS software such as QGIS and ArcGIS.
- Compiled geographic information from various sources like satellite images, geographical surveys, and aerial photographs.
- Prepared reports using GIS and GPS data sources.

Kenya Agricultural and Livestock Research Organization - KALRO   Nairobi, Kenya
GIS Trainee   07/2021 - 09/2021
- Scanned, georeferenced, digitized, and generated maps to support various research projects.
- Conducted suitability analysis for crops, optimizing land use for agricultural productivity.
- Performed land use and land cover mapping to assess and monitor changes in the environment.

EDUCATION

Ajira Digital Program   Nairobi, Kenya
Cloud Computing - Amazon Web Services(AWS)   09/2024 - 11/2024

Moringa School   Nairobi, Kenya
Software Engineering   02/2024 - 08/2024

University of Nairobi   Nairobi, Kenya
Bachelor of Science in Geospatial Engineering   09/2017 - 09/2022

REFEREES

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