VALENTINE IRUNGU

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LinkedIn | GitHub | View My Portfolio

SUMMARY

I help organizations build reliable, scalable, and user-friendly digital solutions that solve real business challenges. With experience in frontend development and GIS solutions, I specialize in turning complex requirements into clean, functional systems that enhance decision-making and improve client operations. I have supported businesses in deploying interactive dashboards, geospatial applications, and responsive websites, ensuring efficiency, usability, and long-term value. My approach combines technical expertise with clear communication, making it easy for clients to adopt and scale solutions confidently.

EDUCATION

ALX Kenya – Nairobi, Kenya   **August 2024 – August 2025**
Software Engineering, Frontend Development

Jomo Kenyatta University of Agriculture and Technology – Nairobi, Kenya   **September 2019 – June 2024**
Geospatial Information Science

St. Mary's Girls Igoji – Meru, Kenya   **January 2015 – November 2018**
High School

WORK EXPERIENCE

Geospatial Developer   **October 2025 - Present**
Ecospace Services – Nairobi, Kenya
- Improved the user interface design and coded the company's HR onboarding web platform, enhancing usability, visual consistency, and navigation for internal staff and new hires.
- Delivered a technical knowledge-sharing presentation to multidisciplinary staff on how websites functions, covering frontend, backend, databases, and server-side concepts, contributing to improved digital literacy and cross-team understanding.
- Provided frontend design and usability consultations for internal geospatial web platforms, advising on user-centered design approaches to ensure spatial tools aligned with end-user workflows and needs.

GIS Developer (Consultant)   **July 2024 - July 2026**
Planate Management Group – Nairobi, Kenya
- Produced Land Use/Land Cover maps and an ArcGIS StoryMap for the MSSM Haiti Camp Site Project.
- Designed and deployed 2 ArcGIS Survey123 forms and report templates for the Bureau of Indian Education (BIE) Project, streamlining data collection and reporting.
- Developed an interactive ArcGIS Dashboard enabling real-time monitoring and decision-making

GIS Intern   **January 2024 - June 2024**
Planate Management Group – Westlands
- Created ArcGIS Indoors maps for school facilities for the Bureau of Indian Education (BIE) Project.
- Built a geodatabase system with domains and subtypes for the Bureau of Indian Education (BIE) Project.

GIS Attaché   **January 2023 - April 2023**
Kenya Agricultural & Livestock Research Organization (KALRO) - Loresho
- Conducted crop yield estimation using WaPOR data in QGIS.
- Built a web map application hosted on Apache Tomcat with maps published in GeoServer.
- Integrated cleaned farmer and crop data into the KilimoSTAT database.

PROJECTS

Geospatial Developer - BridgesToProsperity   **November 2025**
Tech Stack: QGIS, Next.js, TypeScript, TailwindCSS, Framer-Motion, ShadcnUI, Leaflet
- Analyzed population impact for **10 rural bridges in Ethiopia** across **three buffer zones (1 km, 3 km, and 5 km)** over **three years** using **QGIS** and **WorldPop** data.
- Built an **interactive, responsive web-based dashboard** to visualize population impacts using **maps, charts, and tables**.

Frontend Developer - [My Portfolio Website](#)   **June 2025 - September 2025**
Tech Stack: Next.js, TypeScript, TailwindCSS, Framer-Motion, ShadcnUI
- Designed and built a portfolio website to showcase projects, my speaking engagements and professional achievements.
- Implemented a fully responsive layout with clean UI, accessibility, and optimized performance.
- Serves as a central hub for professional branding and visibility.

Frontend Developer - [Shine Navigation](#)   **May 2025 - Present**
Tech Stack: Next.js, TypeScript, TailwindCSS, Leaflet, Progressive Web App
- Currently developing a **map-based Progressive Web Application** to support a Christian Outreach mission in Nyamira and Kisii Counties, organized by *Shine in The World Organization*.
- The application will serve as a navigation guide for mission teams and volunteers, helping them locate essential areas of interest and improving coordination during outreach activities.
- Implementing interactive maps with Leaflet and building a responsive, offline-ready PWA for field usability.

Frontend Developer - [GreenMap, An Environmental Monitoring Web App](#)   **May 2025 - June 2025**
Tech Stack - Next.js, TypeScript, Tailwind CSS, LeafletJS, OpenStreetMap, ReCharts, Google Earth Engine
- Built an interactive web app visualizing the following environmental trends (Vegetation health, Urban Heat Island, Rainfall Patterns) across Nairobi wards over the last 10 years.
- Implemented layered maps with LeafletJS and a dashboard with ReCharts.
- Coordinated with backend developer for seamless Google Earth Engine integration and optimized performance.
- Project won a hackathon and will be showcased at an international conference in Ghana (2025).

Frontend Developer - [Pata Places, A Location-based Utility Finder](#)   **April 2025**
Tech Stack: React, Tailwind CSS, LeafletJS, OpenStreetMap Overpass API, Nominatim API
- Developed a GPS-enabled app to locate amenities (schools, hospitals, cafes).
- Integrated Nominatim & Overpass API for real-time geocoding and amenities data.
- Designed with accessibility, mobile responsiveness, and dark mode toggle.

LEADERSHIP & VOLUNTEER ACTIVITIES

Founder, GeoCode Connect Kenya   **February 2024 - Present**
Built An online geospatial community with 800+ people both Goespatial Students and Alumni's from various campuses. It connects GIS students and experts to share knowledge, ideas, and opportunities, giving back to the geospatial field through mentorship, collaboration, and awareness.

Volunteer, Clinton Health Access Initiative   **December 2023**
Organized GIS Day 2022 (500+ students, 5+ companies), strengthening academia-industry connections.

Leadership & Public Speaking Certification, Ispeak Society   **October 2023 - November 2023**
Completed a 3-month training and earned Public Speaking certification.

Chairlady, Association of Geomatics & Geospatial Engineering Students (JKUAT)   **September 2022 - October 2023**
Organized GIS Day 2022 (500+ students, 5+ companies), strengthening academia-industry connections.

Volunteer, Kenya Red Cross   **October 2022 - November 2022**
Actively utilized Excel to clean health data, improving accuracy and efficiency, mapped roads to enhance accessibility to health facilities, and integrated relevant data on schools and roads to support comprehensive community health planning.

TECHNICAL SKILLS

- **Programming & Web Development:** HTML, CSS, JavaScript, React, Next.js, TypeScript, TailwindCSS
- **GIS Tools**: ArcGIS Pro, ArcGIS Survey123, ArcGIS Dashboards, ArcGIS StoryMaps, ArcGIS Indoors, QGIS, KoboToolBox
- **Data Analytics:** Google Earth Engine, Excel, Python, R
- **Other:** Git/GitHub, Project Coordination, Public Speaking, Strategic Planning

LANGUAGES

- **English - Fluent**
- **Kiswahili - Native**