

JOSEPH KARIUKI

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Dedicated and hardworking geospatial software developer with over 5 years of experience working with GIS software. Regularly demonstrate skill in computer programming with bias in GIS, sharing knowledge and interests in web development. Critical thinker continuously looking for ways to improve processes and contribute towards building capacity and creating awareness on impact of technology and geospatial information.

EXPERIENCE

MAY 2021 – JULY 2021

LAND INFO. SYSTEMS TECHNICAL SUPPORT EXPERT, UNITED NATIONS HUMAN SETTLEMENTS PROGRAMME

Development of Land title deed generation module based on QGIS Desktop, Python and Alfresco.

Provision of capacity of Lands Ministry staff on using the Computer Based Flexible Land Tenure System (CB-FLTS).

Development of the CB-FLTS system specifications document and the database model.

Project publication can be found at [Improving Tenure Security Through the Establishment of a Digital Land Registry in Namibia – Global Land Tool Network \(glt.n.net\)](#)

APRIL 2019 – NOVEMBER 2020

SENIOR PYTHON DEVELOPER, UNITED NATIONS HUMAN SETTLEMENTS PROGRAMME

Design, development and maintenance of Land Information System based on QGIS, Alfresco and PostGIS for the digitalization of land ownership records and production of title deed certificates by the Ministry of Agriculture, Water and Land Reform (MAWLR) in Namibia.

FEBRUARY 2017 – NOVEMBER 2018

SOFTWARE DEVELOPER, E-KRAAL INNOVATION HUB

Customization and deployment of GeoNode geoportal for addressing the need of sharing geospatial data and publishing maps through the web.

Development of automation scripts in GRASS and Python for processing remotely sensed imagery and production of land use land cover maps for development planning purposes.

JULY 2016 – OCTOBER 2016

GIS TECHNICAL INTERN, REGIONAL CENTER FOR MAPPING OF RESOURCES FOR DEVELOPMENT (RCMRD)

Development of Near Real-time geoportal for publishing and sharing of geospatial data with member states. Land use land cover mapping of forest cover in eastern and southern Africa region for development planning.

EDUCATION

SEPTEMBER 2016

BSC. GEOSPATIAL ENGINEERING, UNIVERSITY OF NAIROBI

Undertook courses in Geographic Information Systems entailing data collection, storage, publication and sharing in the form of maps. Land surveying and use of global positioning systems to collect data and processing of it. Remote sensing entailing downloading and processing of remotely sensed satellite data and generation of maps from such data and land cover change detection studies. Course website can be found at [Geospatial and Space Technology | Department of Geospatial and Space Technology \(uonbi.ac.ke\)](http://Geospatial and Space Technology | Department of Geospatial and Space Technology (uonbi.ac.ke))

SKILLS

- Python | PyQt, Django, GDAL, GeoPandas.
- JavaScript | NodeJS, OpenLayers, LefletJS.
- PostgreSQL | PostGIS.
- Linux Server Administration | MS Azure, DigitalOcean, Google Cloud, Linode.
- LAMP stack | Linux, Apache, MySQL, PHP.
- Software documentation | Markdown, Sphinx, Read the Docs.

AWARDS / OTHER ACHIEVEMENTS

- Microsoft Azure Fundamentals Certification, 2020
- Certificate of attendance Free and Open-Source Software for Geospatial Conference for Europe, 2017
- Certificate of participation in IGAD Climate Challenge hackathon, 2016
- Certificate of participation in FAO global forest and land use cover assessment, 2016

INTERESTS AND ACTIVITIES

YouTube vlogging and web blogging | Coding | Working out | Reading Stoic articles and books

LANGUAGES

- English – Full Professional Proficiency
- Swahili – Native Proficiency
- French – Elementary Proficiency

REFERENCES

References [are](#) available upon request.