

Alani Jimmy

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] | [<https://alanijim.github.io/Alani-portfolio/index.html#my-portfolio>]

PROFESSIONAL SUMMARY

A skilled GIS Developer with a Master's in Cartography and GIS Development from the University of Wisconsin - Madison. Expertise in spatial analysis, GIS integration, and custom tool development for various sectors, including wildlife conservation and land management. Proven ability to lead projects from conceptualization to deployment, delivering interactive mapping solutions that enhance user experience and decision-making.

Jimmy is also a computer scientist and GIS professional with extensive experience in cartography and spatial analysis. Currently serving as the Acting Principal ICT/GIS Officer at the Ministry of Lands, Housing, and Urban Development in Uganda, he leads the software development section, driving the evolution of land information systems.

CORE COMPETENCIES

GIS & Cartography: Geographical Information Systems Development, Professional Cartography, GIS Integration, and Spatial Data Analysis.

Software Development: Expertise in System Administration, Database Management, and Programming.

Leadership: Team Leadership, Strategic Planning, Capacity Building, and Project Management.

Technical Support: Troubleshooting, Server Management, and Technical Oversight.

PROFESSIONAL EXPERIENCE

**Ag Principal ICT / GIS Officer, Uganda National Land Information Centre (NLIC)
Ministry of Lands, Housing and Urban Development | March 2023 – Present**

Lead the management of the Uganda National Land Information Centre, serving as Deputy In Charge.

Oversee geospatial data analysis for the Ministry of Lands.

Coordinate technical support for the Land Valuation Management Information System Project.

Provide strategic guidance on hardware performance and efficiency aligned with organizational policies.

**Senior ICT Officer, Uganda National Land Information Centre (NLIC)
May 2022 – March 2023**

Headed the Software Development Section, including drafting Terms of Reference for key projects such as the National Land Information System Enhancement project, Led the development of the Land Valuation Management Information System.

**ICT Officer, Uganda National Land Information Centre (NLIC)
April 2016 – May 2022**

Coordinated the development and maintenance of the Uganda Land Information System (UgNLIS).

Managed software development, data integrity, and user training across all zonal offices.

Provided comprehensive reports and ensured data backup and recovery.

**ICT Officer In Charge, Masaka Ministry of Lands Zonal Office
January 2016 – March 2016**

Managed server functionality, user rights, and data backups.

Provided training, mentoring, and technical support to ensure system efficiency.

**ICT Officer In Charge, Mbarara Ministry of Lands Zonal Office
August 2013 – December 2015**

Ensured server management and network functionality.

Conducted regular data backups and provided user training.

**Information Technology/Bank Assistant, Crane Bank Uganda Limited
March 2013 – August 2013**

Monitored ATMs and ensured network functionality.

Managed account openings, internet banking services, and hardware maintenance.

KEY ACHIEVEMENTS

Deputy In Charge of the National Land Information Centre.

Deputy project manager for the Development of the national Uganda Land Valuation Management Information System.

Led the software development section responsible for the Customization, and maintenance of Uganda National Land Information System.
Developed a GIS tool for Mapping and Documenting Customary Land in Uganda.
Created an API for sharing land information across government agencies.
Customized and deployed the latest version of UgNLIS to 22 zonal offices.
Developed and documented solutions for the Uganda Land Information System.

EDUCATION

MS in Cartography and Geographical Information System Development
University of Wisconsin – Madison, USA | January 2023 – August 2024

Capstone Certificate in Cartography and GIS Development
University of Wisconsin – Madison, USA | January 2022 - December 2022

Bachelor of Science in Computer Science (Second Class Upper)
Uganda Christian University, Mukono, Uganda | 2008 - 2011

CERTIFICATIONS AND TRAINING

Certification in Applied Land Governance – Land Information Systems | Gavle, Sweden|
April 8th -26th -2024

Programming for Data Science with Python | Udacity | 2020

Information Management Technology (ICT) Training | Makerere ICT Solutions | 2015

CCNA Certification | Aptech Computer Education | 2014

Certificate of Merit in Academic Excellence | Uganda Christian University | 2011

Certificate in Systems Administration | ICT Labs, Ntinda | 2010

PUBLICATIONS AND PROJECTS

Practicum project in GIS Based Tool for Mapping and Documenting Customary Land in Uganda

Capstone project in Development of a Mobile-Friendly Application for Enhancing Uganda Wildlife Education Centre Park Visitor Experience.

Capstone project in Development of a Python application using ArcPy and Tkinter for exploring the relationship between nitrate levels and cancer occurrences for the Wisconsin Department of Natural Resources.

Infographic on Covid-19 Impact on Poverty in Uganda - Developed a long-form infographic showing the impact of COVID-19 on poverty rates during and after the pandemic.

International Bike Track Route Development - Planned and mapped out an international bike track route.

Tourist Map of the Pearl of Africa - Uganda - Produced a comprehensive guide map for tourists in Uganda.

Co-authored Papers:

The Uganda Geodetic Reference Network (UGRN) as a Backbone for the National Geospatial Infrastructure in Uganda

Access control measures for Uganda national land information systems towards cloud.

Privacy and security issues.