

## **LLOYD HANGOMA**

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### **Professional Summary**

Full-stack software developer with expertise in modern web development, UI/UX design, and secure application deployment. Proficient in tools and frameworks such as React, Tailwind CSS, MongoDB, Cloudinary, Figma, Adobe XD, and Google Cloud. Experienced in designing user-centered interfaces, building scalable web applications, and deploying solutions across cloud platforms. A strong collaborator and problem-solver with a passion for innovation, digital inclusion, and delivering high-quality solutions that make a meaningful impact.

Notably, I was part of a pioneering team that developed an AI-powered pothole detection and classification system, integrated with a web-based GIS mapping platform, to improve road infrastructure monitoring in Zambia. The tool won 2nd place at the Zambia National ICT Hackathon and 1st place at the Zambia CyberTech Conference Pitching Contest.

### **Skills**

#### **Technical Skills**

- Web development: HTML, CSS, JavaScript, React, Tailwind CSS, Webflow
- Backend and full-stack: Node.js, Flask, REST APIs, MongoDB, Express.js
- UI/UX and design tools: Figma, Adobe XD, Webflow (UI design and prototyping), wireframing, storyboarding
- Database and cloud platforms: MongoDB, Cloudinary, Google Cloud Platform (GCP)
- DevOps and automation: Google Apps Script, Python
- Version control: GitHub
- Scripting and automation: Google Apps Script, Python

#### **Soft Skills**

- Strong written and verbal communication
- Project management (Trello, Slack)
- Self-motivated and proactive
- Agile development and sprint participation
- Adaptable and a quick learner (e.g., willing to learn Photoshop)
- Leadership (e.g., mentoring, club founding)

#### **Other Skills**

- Web accessibility standards (basic)

- Pothole detection platform (AI + GIS mapping)
- Computer and Robotics Club (co-founder)

## Experience

### Software Developer – Zambia Cyber Security Initiative Foundation

*June 2025 – Present*

- Design and develop full-stack web applications using React, Tailwind CSS, and MongoDB.
- Create UI mockups and interfaces using Figma and Adobe XD.
- Use Cloudinary for media storage and Google Cloud Platform for deploying applications.
- Collaborate with a team to build scalable, secure, and innovative software solutions.

### Student Teacher – Lusaka Boys Secondary School

*Taught Computer Studies to Grade 9 and Form One students*

- Prepared lesson plans, teaching materials, and assessments.
- Delivered practical and theoretical lessons in computer basics.
- Co-established a tech club with Harris Shikapande to promote digital skills and robotics among secondary school learners.
- Organized workshops and challenges in programming, electronics, and creative tech.
- The club remains active, helping students explore STEM careers and build innovative projects.

## Education and Training

### Bachelor of Arts in ICTs Education – University of Zambia

*Expected: May 2025 – Lusaka, Zambia*

### GED – Kamwala South Secondary School

*November 2018 – Lusaka*

## Awards, Accomplishments, and Honors

- **1st Place – Zambia CyberTech Conference 2024 (Pitching Contest)**  
Recognized for leading the development of an AI-powered pothole detection and classification system integrated with a web-based GIS mapping platform.
- **2nd Place – Zambia National ICT Hackathon 2024**  
Secured second place among national innovators for the same project, praised for its practical impact on road infrastructure monitoring in Zambia.

- **Certificate of Achievement – Zambia CyberTech Conference 2024**

Awarded for outstanding innovation and technical excellence in cybersecurity and digital innovation.

- **Speaker – DRIF 2025 (Digital Rights and Inclusion Forum)**

Invited to speak on digital inclusion and youth-led innovation in Africa, sharing insights from AI and civic tech initiatives.

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## Websites, Portfolios, Profiles

- [LinkedIn](#)
- [GitHub](#)

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## Activities and Interests

- **Violinist – New Apostolic Church Orchestra & Local Ensembles**

Actively perform as a violinist, contributing to orchestral and ensemble music events.



Demonstrates creativity, dedication, and collaborative spirit through musical expression.

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## References

Dr. Lighton Phiri

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