

# Curriculum Vitae

**Name:** Frank Lembalemba

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**Marital Status:** Single

## Personal Profile Statement

I am a dedicated computer science student and freelance developer with a strong passion for technology. I have a proven track record in mobile, web, and desktop application development. I am highly motivated and enthusiastic about leveraging my technical skills to solve real-world problems. I am driven to build a software company that specializes in maintaining and managing software applications for diverse organizations. My goal is to provide innovative solutions, ensuring the smooth running of technology systems while enabling businesses to focus on their core objectives.

## Professional Experience

**2021-Present:** Freelance Developer (Mobile, Web, and Desktop Applications) *Key*

### *Responsibilities:*

- Developed and deployed applications for various clients, ensuring they meet the needs of the target users.
- Specialize in building scalable mobile, web, and desktop solutions, ensuring cross-platform compatibility.
- Responsible for maintaining and updating applications based on user feedback and emerging requirements.

- Collaborate with cross-functional teams to gather requirements, design solutions, and ensure highquality deliverables.

**Notable Projects (web applications) for Clients:**

- [istude.onrender.com](http://istude.onrender.com)
- [tayantpay.onrender.com](http://tayantpay.onrender.com)
- [legendaryshields.com](http://legendaryshields.com)
- [ambitiousohns.onrender.com](http://ambitiousohns.onrender.com)
- [steadfastcargo.onrender.com](http://steadfastcargo.onrender.com)
- [altimas-creative.onrender.com](http://altimas-creative.onrender.com)
- [blackoutenergysolutions.com](http://blackoutenergysolutions.com)
- [monkloans.onrender.com](http://monkloans.onrender.com)

**September 2023 – December 2023:** Tech Assistant (Intern) Kapasa Makasa University - IT Department

*Key responsibilities:*

- Assisted with computer maintenance, troubleshooting hardware issues for computers, laptops, and printers.
- Restored access point internet connections to ensure smooth connectivity across the campus.
- Supported cabling tasks and network setups in collaboration with the IT team.
- Provided technical support for various IT infrastructure needs.

**November 2022 – August 2024:** Chief Development Officer - Tayantpay Technologies LTD

*Key responsibilities:*

- Led the development of [Tayantpay](http://Tayantpay), a secure and scalable web-based payment gateway.
- Oversaw all technical aspects of the project, including the implementation of online payment features, transaction tracking, and user account management.
- Managed a team of developers to ensure timely delivery and smooth execution of project milestones.

- Collaborated with stakeholders to define product vision, set goals, and ensure alignment with business objectives.

## **Education**

**2021 – 2024:** Bachelor of Computer Science at the Copperbelt University

- Core areas of focus: Artificial Intelligence, Network Technology, and Software Engineering.
- Worked on a Group Project **E-Procurement System**
- Developed a project on **Deep Learning Approach in Melanoma Stage Classification**, involving advanced techniques in image classification using neural networks.

### **Mobile App Development Certification**

- Specialized training in building robust and scalable mobile applications.

### **Web Application Development Certification**

- Focused on full-stack web development and deployment of web-based systems.

## **Key Projects**

### **Deep Learning Approach in Melanoma Stage Classification**

Hugging Face: <https://huggingface.co/Lembalemba/melanomaStageClassification/tree/main>

- Created an advanced deep learning model for the classification of melanoma stages using neural networks.
- Achieved significant results by employing image processing techniques with models like VGG16 and ResNet50, with visualization techniques such as PCA and t-SNE.
- Fine-tuned and hosted pre-trained models for future use.

### **Tayantpay**

Link: <https://tayantpay.com> or <https://tayantpay.onrender.com/>

- Developed [Tayantpay](#), a web-based payment gateway designed to facilitate secure and seamless financial transactions for users.
- Implemented key features such as online payments, transaction tracking, and user account management.
- Focused on providing a user-friendly interface with robust security protocols for safe transaction processing.

### **Blackout Energy Solutions**

Link: <https://blackoutenergysolutions.com/>

- Built [Blackout Energy Solutions](#), a corporate website aimed at providing information and services related to energy solutions.
- Integrated content management capabilities, allowing the client to easily update information on products and services.

### **Legendary Shield (E-commerce Website)**

Link: <https://legendaryshields.com/>

- Developed [Legendary Shield](#), a fully functional e-commerce website designed for smooth product browsing and online transactions.
- Focused on building a responsive and visually appealing interface that enhances user engagement and sales.

## **Skills**

- **Programming Languages:** Java, Python, JavaScript, C#
- **Frameworks & Libraries:** React, Django, TensorFlow
- **Database Management:** MySQL, PostgreSQL
- **Mobile App Development:** React Native, Flutter
- **Web Development:** HTML, CSS, JavaScript, Node.js, PHP, MongoDB
- **Version Control:** Git, GitHub
- **Cloud Platforms:** AWS, Hugging Face
- **Network Connectivity:** Worked with network connectivity and collaborated with a Network Administrator to troubleshoot and maintain network infrastructure.
- **IT Support:** Computer, laptop, and printer troubleshooting; network cabling; restoring internet connections at access points.

## Achievements

- Successfully developed and launched multiple applications for clients, improving user engagement and operational efficiency.
- Developed and deployed several client websites such as *istude.onrender.com*, *tayantpay.onrender.com*, *legendaryshields.com*, *blackoutenergysolutions.com* and *steadfastcargo.onrender.com*.
- **"Deep Learning Approach in Melanoma Stage Classification"** was accepted into the African Conference on Information Systems and Technology (ACIST).

## Hobbies & Interests

- Programming and coding
- Exploring new technologies and frameworks
- Listening to motivational podcasts, music
- Working out, playing chess, reading motivational books

## References

1. Mr. A. Mukuka  
Network Administrator  
Kapasa Makasa University  
0966788051  
  
Chinsali.
2. Mr. S. Sichembe  
Chief Executive Officer

Tayantpay Technologies LTD

0973085126

Kamwala, Lusaka.