Name of Expert: Mr. Dennis Makwakwa

Date of Birth: 24th December 1997

Profession Full - Stack Software Engineer

Education: • MSc in Agricultural Economics, Lilongwe University of Agriculture and

Natural Resources (LUANAR, Ongoing)- Malawi

 Bachelor of (B.Sc.) Business Information Technology, Malawi University of Science and Technology (MUST) – Malawi

Date	Employer and Position	Countries of Experience	Key-Tasks Handled
August 2022-current	Nthanda Foundation. A Full Stack Developer and Trainer. Reference: Panji Harwa +265 994376605	Malawi	 Software development (mobile and web) API testing and implementation Software and hardware systems support web design and development User Requirement Identification User acceptance test formulation and systems Evaluation System design Database design and administration Training users on hardware and software operations Teaching technologies to different audiences creating Content to teach
November 2021	Lilongwe University of Agriculture & Natural Resources-LUANAR. Senior Full-Stack Software Engineer. Reference: Frank Phukaphuka. fphukaphuka@luanar.ac.mw	Malawi	 Software development (mobile and web) API testing and implementation Software and hardware systems support web design and development User Requirement Identification

- User acceptance test formulation and systems Evaluation
- System design
- Database design and administration
- Training users on hardware and software operations
- Juggle multiple projects and priorities simultaneously in a fast-paced environment
- Liaise with management and clients to identify and define project requirements, scopes, and objectives. That align with organizational goals
- Coordinate internal and external resources, ensuring projects remain within scope, schedule, and defined budgets
- Install, configure, and maintain computer hardware.
- Software development (mobile and web)
- API testing and implementation
- Software and hardware systems support
- web design and development
- User Requirement
 Identification

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- Recover data.
- Closely always monitor the performance of the servers.
- Implement operating systems.
- Technical support and guidance.
- Routine system maintenance.
- System backup and security.
- Analyse project progress and, when necessary, adapt scope, timelines, and costs to achieve maximum benefit
- Assign roles and tasks to dedicated team members,

			 based on individual strengths and abilities Build the skill sets of individual team members and capture overall learnings for the company Achieve organizational goals while upholding standards and best practices
November 2021- January 2022	Agile systems. Full Stack Developer. Reference: Alinafe Mbendera, +265996249915	Malawi	 Software development (mobile and web) API testing and implementation Software and hardware systems support web design and development User Requirement Identification User acceptance test formulation and systems Evaluation System design Database design and administration Training users on hardware and software operations
2017-April 2020	Malawi University of Science and Technology. ICT Officer (Intern). Reference: Rodney Maganga rmaganga@must.ac.mw	Malawi	 Assist with help desk calls, scheduling, and tickets management Follow up on user requests and ensure timely resolution Basic end-user support on technical issues covering Mac/PC hardware, Printers, scanners, computer peripherals, Mobile devices (iOS, Android) and network connectivity Under IT staff guidance, create accounts and configure end-user computer systems Assist in the maintenance of IT standards and documentation Under the guidance of IT staff, inventory technology equipment and software.

			 Use remote tools for maintenance and support of ICT systems Maintain audio and video equipment in conference rooms Support / maintenance of IP telephony system Other duties as may be assigned for exposure to modern ICT systems
2019-April 2020	CM Holdings (Bliss&Honey) Full Stack Developer. Reference: Charles Makamo +265 996487164	Malawi	 Getting User requirement System design and development System configuration Database design and administration server administration Data entry

ACHIEVEMENTS AND AWARDS

- 1st position in RICE University Umbilical cord challenge
- Gold Medallist in Africa Science Week Robotics Challenge in 2020
- Most Valuable Player (MVP) in Vice-Chancellor Trophy 2020
- Pioneer Degree in Bachelor of Business Information Technology in 2020
- Best student in sciences award Police Secondary School in 2014.
- Overall best student award Police Secondary School in 2014.

Language Skills: English, Chichewa

Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks

KEY QUALIFICATIONS:

Mr. Dennis Makwakwa is a full-stack developer. He is honest, highly motivated, and result-oriented and has manifested himself in this regard by successfully working on several projects. In addition to the aforementioned strongholds, he has extensive knowledge in accounting and business administration. He has worked as a full-stack developer for Malawi University of Science and Technology from 2017 to 2020 (internship) on various projects, for instance MUST's Human Resource Management system and MUST's Students Electronic Voting system. Furthermore, in 2021, he worked at Agile Systems as a full-stack developer where he developed various systems used across Malawi, including the MAGU administration system and student portal, and tourism systems. Mr. Makwakwa worked at LUANAR (Lilongwe University of Agriculture and Natural Resources) as a senior software engineer for the ICED ALL-IN project (Adoption of digital tools in agriculture). In addition to this, he has been part of several innovations in networking and software development projects. His research interests are in software development, green innovations, machine learning, and the Internet of Things. Dennis' passion is to be part of developing technologies in the industry of ICT that can lead to the growth of technological development in developing countries like Malawi.

RELEVANT PROJECTS:

Malawi Digisavvy is the name of the project.

Year: 2020 - ongoing Location: Malawi Client: Public.

Project Description: Digisavvy is an e-learning platform that offers various skills courses for success, which are delivered by highly qualified and experienced trainers and consultants. Courses can be accessed from anywhere online. It has courses ranging from Advocacy Skills, Creativity Skills, Entrepreneurial Skills, Professional Skills, all the way to Event Planning Skills.

Link: digisavvy.org

Position held: Full-stack developer and trainer.

Activities Performed: Responsible for the system's (digisavvy) maintenance, install and configure software and hardware for the system, manage network servers and technology tools, Set up accounts and workstations

Monitor performance and maintain systems according to requirements, Troubleshoot issues and outages,

Ensure security through access controls, backups, and firewalls. Upgrade systems with new releases and models, Train your staff on new technologies. Creating content to deliver on the platform, delivering the content (physically or online).

Matandani Seventh-day Schools Management System is the name of the project.

Year: 2022 Location: Malawi

Client: Matandani Seventh-day Schools.

Project Description: This system allows the school to manage registration, admissions, the academic calendar, aThisdance, and more. This school management system centralises tedious school processes and significantly increases the effectiveness and efficiency of school administration.

Position Held: Full-stack Developer.

Activities Performed:

- Developing front end system architecture.
- Designing user interactions on the system.
- Developing back-end.
- Creating servers and databases for functionality.
- Ensuring cross-platform optimization for mobile phones.
- Ensuring responsiveness of applications.
- designing the Interface.
- Seeing through a project from conception to finished product.
- Designing and developing APIs.
- Meeting both technical and consumer needs.
- Staying abreast of developments in applications and programming languages.

Name of Project: ALL-IN PROJECT

Year: 2021-ongoing Location: Malawi

Client: public (farmers and buyers).

Project Description: The Lilongwe University of Agriculture and Natural Resources (LUANAR) with support from USAID Feed the Future, through ALL-IN and UC-Davis is implementing a project on the adoption of digital technologies and platforms to improve the marketing efficiency of horticultural products in Malawi. The project is being implemented in Dedza and Mzimba south.

Link: Zakudimba.mw

Position held: senior software engineer.

Activities Performed:

• Software development (mobile and web)

- API testing and implementation
- Software and hardware systems support
- web design and development
- User Requirement Identification
- User acceptance test formulation and systems Evaluation
- System design
- Database design and administration
- Training users on hardware and software operations
- Juggle multiple projects and priorities simultaneously in a fast-paced environment
- Liaise with management and clients to identify and define project requirements, scopes, and objectives. That align with project's goals
- Coordinate internal and external resources, ensuring projects remain within scope, schedule, and defined budgets
- Install, configure, and maintain computer hardware.
- Software development (mobile and web)
- API testing and implementation
- Software and hardware systems support
- web design and development
- User Requirement Identification
- Recover data.
- Closely always monitor the performance of the servers.
- Technical support and guidance.
- Routine system maintenance.
- System backup and security.
- Analyse project progress and, when necessary, adapt scope, timelines, and costs to achieve maximum benefit
- Assign roles and tasks to dedicated team members, based on individual strengths and abilities
- Build the skill sets of individual team members and capture overall learnings for the project
- Achieve project's goals while upholding standards and best practices

Name of Project: NATIONAL YOUTH COUNCIL SMS handling portal.

Year: 2021 Location: Malawi

Client: National Youth Council

Project Description: This system allows the National Youth Council to manage their routine SMS messages. The system allows the users to write the SMSes and send them on schedule or on click to specific audiences of their choice.

Link: Nycom

Position Held: Full-stack Developer.

Activities Performed:

- Developing front end system architecture.
- Designing user interactions on the system.
- Developing back-end.
- Creating servers and databases for functionality.
- Ensuring cross-platform optimization for mobile phones.
- Ensuring responsiveness of applications.
- designing the Interface.
- Seeing through a project from conception to finished product.
- Designing and developing APIs.
- Meeting both technical and client's needs.

Name of Project: Pa.mw System

Year: 2021 Location: Malawi Client: Public.

Project Description: This is a website that encompasses many of the services found in Malawi. Its main purpose is to

simplify the access to digital services available in Malawi

Link: Pa.mw System

Job Title: Full-Stack Developer

Activities Performed:

- Developing front end system architecture.
- Designing user interactions on the system.
- Developing back-end.
- Creating servers and databases for functionality.
- Ensuring cross-platform optimization for mobile phones.
- Ensuring responsiveness of applications.
- designing the Interface.
- Seeing through a project from conception to finished product.
- Designing and developing APIs.

Name of Project: Malawi Assemblies of God University Student Portal (web and mobile).

Year: 2021 Location: Malawi

Client: Malawi Assemblies of God University (MAGU).

Project Description: This system allows the MAGU to manage registration, admissions, academic calendar, attendance, accounts and more. It also allows students to access their grades, book accommodation, and vote for their student representatives, all online. and can be accessed through the <u>website</u>.

Position Held: Full-stack Developer.

Activities Performed:

- Developing front end system architecture.
- Designing user interactions on the system.
- Developing back-end.
- Creating servers and databases for functionality.
- Ensuring cross-platform optimization for mobile phones.
- Ensuring responsiveness of applications.
- designing the Interface.
- Seeing through a project from conception to finished product.
- Designing and developing APIs.
- Meeting both technical and user's needs.

Name of Project: Malawi University of Science and Technology Human Resource Management system

Year: 2020 Location: Malawi

Client: Malawi University of Science and Technology (MUST)

Project Description: These human resources management system is a suite of software applications used to manage human resources and related processes throughout the employee lifecycle. It enables a MUST to fully understand its workforce while staying compliant with changing tax laws and labor regulations. HR leaders and staff are the primary users, given that they run day-to-day workforce operations and are responsible for compliance and performance reporting. However, HR isn't the only department that benefits. ALL employees with self-service for common tasks—an important selling point for younger hires and they can also apply leaves send other requests Executives also use this system to generate data on workforce trends and their business implications.

Position Held: Full-stack Developer.

Activities Performed:

• Developing front end system architecture.

- Designing user interactions on the system.
- Developing back-end.
- Creating servers and databases for functionality.
- Ensuring cross-platform optimization for mobile phones.
- Ensuring responsiveness of applications.
- designing the Interface.
- Seeing through a project from conception to finished product.
- Designing and developing APIs.
- Meeting both technical and users needs.

Name of Project: Denmark Computer Lab installation program.

Year: 2019 Location: Malawi

Client: Matapwata secondary school

Project Description: With help from FAIR Denmark, Malawi University of Science and Technology (MUST) has engaged itself in installing computer labs and ICT centres around Malawi to help youngsters develop their digital skills in their

respective schools. **Link:** <u>fairDenmark</u>

Position Held: ICT officer (Intern).

Activities Performed:

- Server Installation
- Terminals (Desktops) setups
- Networking
- Cabling
- User Orientation

Expert's contact information: dennismaqua@gmail.com +265 995908058.

Certification: I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience, and I am available, as and when necessary, to undertake the assignment in the event of an award. I understand that any misstatement or misrepresentation described herein may lead to my disqualification or dismissal by the client.



17/09/2022

(Name of Expert: Mr Dennis Makwakwa)

Signature

Day/Month/Year