

NYASHA ZIVANAI

IT & Software Engineering

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Summary

Results-driven Software Engineer with a strong passion for technology and more than 3 years of experience in the field. Proficient in writing, testing, and optimizing code in various programming languages, and actively contributed to the development of software system solutions. Adept in database design, network administration, and providing comprehensive technical IT support. Seeking a challenging role within a tech ecosystem to leverage my skills and expertise in driving groundbreaking projects and achieving professional success.

Experience

Elaine Solar Africa

Harare

Intermediate Software Engineer

07/2024 – Present

- Led the development of ESAPaygo, integrating OpenPAYGO Token standards for secure pay-as-you-go solar solutions
- Contributed to software development using Scrum methodology with 2-week sprints and daily stand-ups
- Programmed and configured 2000+ IoT devices and microcontrollers for solar system monitoring and control
- Developed firmware updates that reduced power consumption by 15% and implemented remote device management capabilities for 150+ solar installations
- Built and maintained the company website using React.js and Node.js, increasing user engagement by 40% and reducing page load time by 2.5 seconds
- Designed and optimized database architecture for improved system performance
- Implemented systematic debugging procedures that resolved 75+ complex technical issues, reducing average bug resolution time from 48 to 12 hours
- Monitored system performance metrics and implemented optimizations that improved overall system efficiency by 35%
- Generated technical documentation and user guides for hardware-software integrations

Ecotracker Africa

Harare

Software Engineer

11/2023 – 06/2024

- Collaborated in the development of the TAURA VOIP App
- Contributed to software solutions in an agile environment, completing 10 major releases with zero critical bugs
- Revamped the company website using React, increasing organic traffic by 45% and reducing bounce rate by 30%
- Led frontend development of the Commissary system web and mobile application using React Native, completing the project 2 weeks ahead of schedule
- Modifying and maintaining of the system's Database
- Collaborating in the testing process of the system
- Participated in 40+ code reviews, ensuring 100% adherence to defined coding standards
- Developed and conducted 8 training sessions for 15 team members on new technologies and best practices
- Diagnose and resolve issues through systematic debugging
- Implemented marketing analytics tools that tracked 15 key performance indicators, resulting in 35% improved conversion rates

Blackman Kreativity Africa

Harare

Junior Software Engineer

08/2020 – 08/2023

- Highly involved in the development of the BKAfrica platform using the SCRUM Framework
- Led the front-end development of the platform
- Designed the Graphics Content for the platform
- Collaborated in the development of the company AI powered WhatsApp chatbot developed with Python and JavaScript
- Outsourced to Hyperlabs solutions and contributed to their Hyperstream Bulk SMS System, successfully integrating with Zimbabwe's MNOs (Econet and NetOne) to process 100,000+ messages daily
- Collaborated in the setup and configuration of 12 Ubuntu servers, achieving 99.7% uptime and 40% faster deployment cycles
- Led and collaborated in several of clients' software systems (webApps, DApps, websites and Desktop Applications)

Blackman Kreativity Africa

Harare

Hardware Repair & Maintenance Specialist

10/2021 - 08/2023

- Replacing and Upgrading Hardware components
- Troubleshoot and repaired 300+ hardware and software issues with a 95% first-time fix rate
- Updated and upgraded firmware and drivers for 150+ systems, reducing security vulnerabilities by 75% and improving performance by 30%

Blackman Kreativity Africa

Harare

Graphics Designer

01/2022 - 08/2023

- Created 80+ flyers and 25+ banners for marketing campaigns that increased event attendance by 45%
- Designed content and visuals for the company platform that improved user engagement by 60% and reduced bounce rate by 25%

HyperLabs

Harare

Software developer

06/2022 - 08/2023

- Hyperlabs Bulk SMS System Development and Maintenance Team
- Successfully developed Hyperstream to completion, achieving 99.8% message delivery rate and supporting 50+ concurrent enterprise users
- Led the Front-End Development of Hyperstream using Vue.js, creating 30+ reusable components and reducing development time by 40%
- Collaborating with the dev team to maintain the system

St Patrick's High school

Gweru

Programming Coach

10/2020 - 01/2021

- Played a pivotal role within an instructional team, significantly improving students' understanding of programming
- Contributed to the development and distribution of student-specific learning materials, thereby positively impacting their programming experience.
- Coached Programming to over 50 students and acquired over 96% pass rate

Econet Wireless

Gweru

Brand Ambassador

12/2018 - 02/2019

- Marketing of Econet Services and Merchandise
- Customer Helpdesk on Econet Services

Education

Saint Patrick's High School

01/2013 - 11/2018

O-level and A-level Zimsec

- 11 O-level passes (including Math, English and Science)
- 3 A-level passes (Math, Physics and Computer Science)
- Award: Best Computer Science student (2018)

Harare Institute of Technology

08/2019 - 10/2023

BTech in Software Engineering

- Degree Class: 2.1

Skills

Programming: Python . JavaScript . Flutter . React JS NextJS . Clojure . C . Java . Django . MySQL . MERN stack . PostgreSQL . Solidity

Other skills: Photoshop . CorelDraw . Docker . Git . Hardware Repairs . Networking . Github . Linux . AWS

Projects

NFT Blockchain powered beef supply chain management (Final year project)

A Decentralized App used to address the vital need for beef supply chain traceability due to the increase in counterfeiting and use of excessive preservatives and hazardous chemicals by providing a bird's eye perspective of the beef supply chain and micro-knowledge of each transaction, enhancing transparency.

- Got a distinction and the institute is looking forward to publish my work

MiLab

A mobile app that can simulate Chemistry lab experiments.

- won the best project in the Africa JA competition in Rwanda.

Hypersteam

A bulk SMS WebApp

- enabled the client to register cooperates as clients and allowed them to send bulk messages to their customers

BkAfricaZim Platform

A WebApp that comprised of an online mall, WhatsApp chatbot and several other website for the company proceedings

- Allowed the company to operate smoothly and be able to integrate all their work on a single hybrid platform

MiCargo ERP

An Enterprise Resource Planning system to manage the company business

- Created a system that could integrate the company business and ERP services to streamline Customs Declaration Processes

ESAPaygo Platform (Revamped)

A Pay-As-You-Go platform (WebApp & PWA) which is used to provide tokens to activate devices through microcontrollers

- Allowed the company to monitor and control the payments of installments from clients using the Paygo system

Hande Booking System

An Online Bus and Car Booking system

- Created a system that would allow the users / clients to book the busses as well as rent cars through the platform and also allows the account owners to manage their account as well as having ERP functionalities as well.

Strengths

Flexible & Spontaneous — Can adjust and work at any environment and can quickly learn new tasks

Excellent Designer — With my ability to pay special attention to detail, I have been assigned and excelled in many designing projects.

Creative Thinking — Creativity helped me excel in formulating exciting ideas that have a significant potential.

Problem solving — Good at overcoming drawbacks and solving problems in an innovative fast way

Achievements

- Best Computer Science Student

Memberships

- Professional Member of Software Engineering Association in Zimbabwe (SEAZ)

References

W.A Makondo

Chairperson of Software Engineering Dept at HIT

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M.D Maposa

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