SAMUEL MWENDWA KILONZO

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SUMMARY:

Dynamic software engineer and web developer with over a year of experience in programming and software development. Currently working on an EV Charging Station Management system. Created an integrated bike tracking and carbon credits calculation system solution which resulted in a 50% increase in operational efficiency as well as a 10% decrease in cloud computing costs compared to the previous system. Skilled in developing software solutions, code optimization, source and version control, web development, SEO optimization and working with cross-functional teams. Recognized for enhancing project functionality and system efficiency through code optimization and use of various modern technologies. Committed to development using JavaScript and Java frameworks and adhering to Agile methodologies.

EXPERIENCE:

Electrify Africa (Currently in the process of being rebranded to EvoCharge Africa)   January 2023 – Present
Role: Junior Software Engineer
- Utilized NestJS framework, which supports microservice architecture to build and set up the backend as well as expose the RESTful APIs.
- Set up RabbitMQ to enable asynchronous processing and act as a buffer to ensure system resilience during high loads.
- Utilized the OCPP protocol along with WS Sockets to set up secure communication channels between the physical chargers and the backend system. (OCPP 1.6 and 1.6j).
- Utilized Figma for the frontend design of the website.
- Utilized ReactJS, TailwindCSS and ShadCN UI for building the frontend. Visit the website here.

Carbon Zero Mobility   September 2023 – December 2023
Role: Software Development, Contract
- Utilized NestJS framework to build a backend system to track and manage electric bikes as well as allow for calculation of carbon credits.
- Utilized Prisma as my ORM and GraphQL to enable communication between the front and backend.
- Set up RabbitMQ for queuing of the GPS data which allowed for asynchronous processing as well as reducing overuse of cloud resources in high load. This led to a 10% decrease in costs.
- Used Redis for caching and to set up a single source of truth as well as to improve system performance.
- Collaborated with Silicon Overdrive team to set up AWS, set up QA and production environments as well as a CI/CD pipeline to allow for a more professional approach to development.
- Used NextJS to build and deploy the user-facing frontend. Visit the website here.

State Department for Energy   May 2023 – August 2023
Role: ICT Officer, Attachment
- Worked under the ICT Manager to maintain the network infrastructure within the organization and ensure availability and security.
- Provided IT support to users within the organization
- Helped set up GIS servers to map out the nationwide power grid.
- Suggested for the implementation of a helpdesk system, wrote proposals for it as well as system documentation to support the proposal.

TECHNICAL SKILLS:

- **PROGRAMMING LANGUAGES:** JavaScript, Java, Python, HTML, CSS, PHP
- **FRAMEWORKS:** React, NextJS, NestJS, NodeJS, ExpressJS, Django, Spring Boot, Laravel, Angular
- **DATABASES:** MySQL, PostgreSQL, MongoDB
- **SOFTWARE:** Git, GitHub, Figma, Jira, Microsoft Office Suite, AWS

EDUCATION:

Egerton University September 2019 – October 2023
Bachelor of Science Degree in **Computer Science**

PROJECTS:

- **Help desk System (2023)** - Built a helpdesk ticketing system to assist any technical support team to view ticket requests, monitor responses and provide accurate records for future reference and accountability. Find the source code here.
- **Personal Home Cloud (2020) -** Built a custom home server by making use of TrueNAS Scale and other technologies to serve as my own personal storage server to store my projects and files. Having implemented security through Cyberoam, and allowing access from anywhere in the world, I simplified access to all my files without any cost to my local storage. Find source code here

ADDITIONAL SKILLS:

- Excellent communication skills.
- Excellent logical thinking and problem-solving skills. Checkout Alva Labs Results.
- Ability to work in groups and an impeccable work ethic.
- Ability to work under pressure and meet deadlines
- Intermediate level expertise in 3D art and digital art.