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PERSONAL PROFILE

I am an experienced and highly skilled software engineer with a proven track record in various areas, from web development and embedded systems to IoT engineering and automation. I am passionate about technology and constantly strive to improve my skills and stay up-to-date with the latest developments in the industry.

My expertise in various programming languages, including JS, C++, Python, and Embedded C, has allowed me to deliver innovative and effective solutions to multiple projects, from developing applications and trading bots to building irrigation systems and hypervisors.

I am also highly knowledgeable in cloud technologies, and IT support, and I have experience managing infrastructure, security, and hosting configurations for a range of web applications.

Whether you are looking for someone to lead complex automation projects, build innovative web applications, or support and maintain IT systems, I have the skills, knowledge, and experience to meet your needs.

EDUCATION

Jomo Kenyatta University of Agriculture and Technology

BSc. Mechanical Engineering -Automotive Option

Alliance High School

November 2015

Attained an A grade

RELATED EXPERIENCE

1. Soma Sasa Mobile App Development - (2022 - Present)

- Developed a mobile application for video streaming school play videos called Soma Sasa. The application streams school-set book films that are viewed by Kenyan school students, parents and teachers. The application has 50k+ downloads on the Google Play Store and servers over 10k users.

2. Design and Maintenance of Hypervisor, Personal Home Lab - (2019 - Present)

- I designed and implemented a hypervisor using Proxmox for my home lab, providing virtualization solutions for Windows, Linux machines, Docker containers, and storage solutions for NAS. I use the system for automatic builds, testing and exploration of various OS and systems.

2. PC Assembler, Personal Projects - (2021 - Present)

- Assembled and maintains a high-performance personal computer, demonstrating strong technical skills and attention to detail. I selected, purchased and assembled all the parts needed to keep the system running.

3. Full-Stack Web Developer, novatech.co.ke, climaxpublishers.org, tinkacode.com, aqeducation.com, journeyquestsafaris.com, nakuruentrepreneurawards.com- (2018 -

Present)

- Developed and maintained live websites using Flask, Django, FastAPI and various front-end technologies such as React, Tailwind CSS and Bootstrap.
 - Managed DNS and security for the websites using Cloudflare and implemented a proxy server using Nginx.
 - Hosted the websites on Linode, Azure, AWS, Cloudflare, Contabo and Digital ocean cloud, providing a reliable and scalable platform for their operations.
 - Managed automated emailing through Zoho mail (Zepto mail).
 - Implemented and managed bulk SMS system through Advanta
 - Implemented and managed automated Whatsapp messaging through meta business.
- 4. IoT Engineer, Irrigation Management System - (2019 - 2022)**
 - Designed and built an irrigation management system using the Blynk IoT platform for cloud hosting and UI design, an ESP8266 control board.
 - 5. Devops Engineer, Climax Publishers- (2019 - Present)**
 - Works with a team of 3 developers to maintain infrastructure for Climax Education publishers, ensuring that we provide soft copy books to over 100k school students, parents and teachers with more than 99% uptime.
 - 6. Trading Bot Developer, Personal Projects - (2020 - Present)**
 - Hosted a trading bot on an EC2 instance, utilizing Tradeview signals and webhooks to trade on Binance.
 - The trading bot was built with Django (Python-based framework).
 - 7. Automation Engineer, Basketball Score Display - (2020 - Present)**
 - Designed and built a basketball score display that could be controlled through a browser, using Node MCU as a local server.
 - 8. Automation Engineer, Chipkin Automation - (January 2022 - Present)**
 - Worked with Chipkin Automation, an automation solutions provider, to design and implement complex automation systems for translating industrial protocols ie. protocol gateways. My main stack at this company is NodeJS.
 - Leveraged technical skills and industry knowledge to deliver critical gateways to clients.

TECH TALKS

Africa's Talking Summit Kampala Edition- Securing Buckets (October 2024)

Participated in Africa's Talking conference taking place in Kampala, Uganda. Talked about bucket security and how developers can secure their public assets.

VOLUNTEERISM AND LEADERSHIP

• JKUAT Society of Engineering Students

Served as Chairperson of the JKUAT Society of Engineering Project Committee from January 2018 to February 2019, where I played a key role in leading and guiding society members on the development of various projects. I was responsible for developing project schedules and coordinating the society's activities.

In February 2019, I was elected as Secretary-General of the JKUAT Society of Engineering,

where I provided administrative and legal support as the backbone of the society. In collaboration with other society leaders, I coordinated and facilitated a wide range of society activities.

- **FIRST LEGO League**

September 2017 to date

Helps in officiating FIRST LEGO league tournaments organized yearly. Have participated in the capacity of a judge and a referee for the tournament, both for juniors and senior categories.

- **Innovate Kenya Mentor (2019-Present)**

Experienced mentor with a track record of success in various Innovate Kenya training programs. Mentored teams in developing prototypes for drowning-detecting and rescuing machines, integrated water metering systems, and fire suppression systems. Provided assistance in areas such as project building, evaluation, prototyping, and presentation preparation.

- **AnitaB Technical Coach (2022-Present)**

Mentors and guides atleast 3 cohorts per year to realize their software development goals. This includes one-on-one with the students to ensure they can debug their programs.

- **Young Scientist Kenya Technical Judge and Mentor (2023-Present)**

I evaluate the students' projects and grades based on criteria outlined by the YSK team. I also mentor high school students from various schools such as Moi Forces Lanet and Maryhill High School, to participate in the competitions.

SKILLS

- Expertise in computer systems and programming languages, with proficiency in macOS, Windows, and Linux operating systems.
- Proficient in virtualization systems such as Kubernetes, Docker, and Hypervisors such as Proxmox.
- Experienced with CI/CD development processes such as GitHub actions.
- Skilled in programming languages, including Python (Proficient), Embedded C/C++(Proficient), JavaScript (intermediate), and Java (beginner).
- Experienced in programming microcontrollers such as Arduino, Raspberry Pi, Node MCU, and STM32.
- Adept in computer-aided design software such as Autodesk-related software and PCB design tools, including EAGLE and Altium PCB design software.
- Proficient in block-based programming with EV3 Mindstorm, MIT App inventor, and Scratch software.

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