Alex kinyua Nthatu

Software & Network Engineer

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As a Software Engineer,as well as Network Engineer, my background is rooted in a passion for technology and a diverse range of experiences in both front-end and back-end development, to be presice the front-end development have honed my skills through hands-on projects, formal education, and continuous self-learning.

I started my journey into the world of software engineering after joining university for Bachelors degree. I started with a solid foundation in HTML, CSS, and JavaScript. Over the years, I have expanded my expertise by diving deep into front-end and dynamic user interfaces.

Networking has been my all time passion, curiosity on how machines comunicate across te network made to gain much interest which led me to have a training and secure a Cisco Certification of Cisco Certified Network Associate(CCNA) which has enabled me grasp wide range on network and security fundamentals.

Database management has been a key aspect of my growth as a developer. I have worked with relational databases like MySQL , adapting to different data storage and retrieval requirements.

As a problem solver at heart, I enjoy tackling challenges and implementing effective solutions. My ability to work in agile environments and collaborate with cross-functional teams has allowed me to thrive in dynamic and fast-paced projects.

Continuous learning is a core aspect of my approach to development. I keep myself updated with the latest industry trends and technologies, always seeking opportunities to enhance my skills and stay ahead in this ever-evolving field.

In conclusion, my background as a Software and Network Engineer encompasses a comprehensive set of technical skills, a problem-solving mindset, and a passion for building innovative and user-friendly applications. I am excited to leverage my expertise in creating impactful and cutting-edge solutions for the challenges that lie ahead.

Skills

- Computer Network and security - static routing, trunking, access list.
- NAT, PAT, ACL, spanning tree, VLAN, switching, INTER VLAN ROUTING.
- Subnetting, IP addressing.
- Dynamic Routing, NAT, Network Automation Basics, QoS.
- Security Threat mitigation, Virtualization.
- Efficient knowledge on Linux/Unix- Bash, Linux File permissions, Shell.
- Scripting, FOSS, Open-source software, DNS configuration.
- Efficient knowledge in Django, Python, JavaScript, HTML, CSS.
- UX/UI Design based on Figma.
- Programming.
- Flexible and Adaptable.
- Excellent Communication.
- Application Development.

Work History

Feb.2023 - July.2023

ICT Digital Literacy Programme Internship
Ministry Of Education, State Department For Basic Education
- Support E-learning and content development in the line with the schemes Current Of work.
- Support implementation of Digital Literacy Programme.
- Providing first line support and maintenance of ICT services in schools.
- Assist teachers by integrating ICT in delivery of teaching, learning, assessment and reporting.
- Providing classroom support and training of School teachers in use of digital learning.

Oct.2020 - Mar.2022

Software & Network Engineer
Treater Tech Machines, Meru
- Develop web applications such as personal portfolio websites.
- Revised, modularized and updated old code bases to modem development standards, reducing operating costs, and improving functionality.
- Troubleshooting problems when they arise.
- Upgrading and maintaining existing systems.
- Making updates to ensure existing systems remain usable.
- Improving system quality by identifying issues and common patterns, and developing standard operating procedures.
- Liaising with colleagues to implement technical designs, Deploying software tools, processes and metrics.

Jan.2020 - Apr.2020

Industrial Engineering Intern
National Irrigation Authority / Mwea, Kirinyaga County
- Enhance office IT system through appropriate upgrades and advise Operations Unit on changes or improvements require, Maintain and troubleshoot network and computer related issues, Installing application software and handware.
- Troubleshoot and repair of hardware, OS and applications. Liaising with colleagues to implement technical designs. Deploying software tools, processes, and metrics.

Education

University of Electronic Science and Technology of China, China
BSc in Software Engineering   *July.2019*
- **Selected coursework:** Computer Network, Software Technology, Programming.
- **Thesis :** Design and implementation of game contract based on Blockchain Technology.

Chogoria Boys High School / Maara, Tharaka Nithi County
Kenya Certificate of Secondary Education(KCSE) A-   *Nov.2014*

Karethani Primary School / Gatue, Tharaka Nithi County
Kenya Certificate of Primary Education(KCPE) -Pass   *Nov.2008*

Professional Training/Certification
CCNA(Cisco Certified Network Associate)

Referees

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