

MAINA WANJAU
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SKILLS AND QUALIFICATIONS

HCNP Routing and Switching – Carrier
Network Design, Planning and Maintenance
Interconnection, Peering and BGP Policy
Cisco, Huawei, Junos
Cisco NPDES – Trained no Certified
High-Availability Network (99.99%)
Leadership Experience (Mentor & “Senior”
Roles)
Detail-Oriented & Strong Communication Skills
Cisco and Huawei skills/experience in large ISP
Network Programmability

DevOps/Cloud Engineer (Edureka)
Continuous Intergration/ Continuous Delivery
(CI/CD) Jenkins
Configuration Management (puppet, ansible)
Containerization and Orchestration (Docker,
Kubernetes)
Infrastructure As Code (IAC) – Puppet, Ansible,
Docker , Kubernetes
Scrum Studies
Design Thinking and Methodologies (DTM)

AWARDS AND ACHIEVEMENTS

- Safaricom Digital Academy, First cohort group of 60 (out of 7000 employees), January 2019
- TES Innovation Award, Network Resilience and Automation, May - November 2018
- HCNP- Huawei Certified Network Professional Carrier-, August 2018
- IMS (IP Multimedia Support) implementation, VoIP Enterprise migration from NVS to NFV, June 2018
- Safaricom IPRAN upgrade, Transmisson upgrade (1G to 10G, 40G to 100G), Jan – September 2017
- WiMAX upgrade from 16d to 16e, Fixed Enterprise customers capacity upgrades, Jan – Dec 2016
- Enterprise Monitoring, Solawinds installation integration and support, May – Sept 2015

PROFESSIONAL EXPERIENCE

Safaricom Digital Academy

(Jan 2019 – Present)

Technical programme aimed to address 7 essential domains. (Cyber Security, Software Development, DevOps & Automation, Cloud Computing, Data Science and Analytics, Future Network Technologies (NFV & IOT) and Design Thinking and Methodologies). I have specialized in DevOps aiming to automate repetitive tasks across the company and leverage on CI/CD tools to reduce release-time of new services to the market

Safaricom PLC – Nairobi, Kenya

(May 2018 – Jan 2019)

Enterprise Access Infrastructure

L3 Network Engineer responsible for the design, implementation and support if the enterprise access, transmission and core networks. Provided high quality monitoring and reporting of network KPI's to the business for proper budgeting and planning. Provide the highest level of technical escalations on difficult and complex cases where customer satisfaction is at risk. Lead architect responsible for designing and ensuring Network availability for mission critical events and critical Network upgrades.

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last updated on April 2019

Lead enterprise engineer for end-to-end technical support on platinum customers (Core-Cisco ASR9k, Tx- Huawei IPRAN, Access- Wimax 16e/16d Fixed LTE GPON). Infrastructure management of new buildings (fiber sites) managing various contractors entrusted to deploy new sites. SLA management for various vendors we used in regards to CAPEX and OPEX in the annual budget reviews.

Safaricom PLC – Nairobi, Kenya

(Jan 2015 – Apr 2018)

Fixed Data Network Engineer

Enterprise Technical Engineer responsible for supporting the access enterprise network by ensuring high network availability (99.99%) and high service availability (0% packet loss, < 30ms latencies). Working with all types and 'layers' of devices; access, backbone, core/edge and data-center. Cisco ASR9K, ASR1K, Cisco Catalyst Switches, Huawei ATN PTN X1 X2 M8 and NE40 routers, Huawei MXU, Huawei AR1200 AR2200, Huawei S3300 and customer CPE platforms (Telrad CPE1000K CPE7000K, RADWIN 2K 5K, Ceragon JET). Engineer and maintain Safaricom's Fiber FTTx, enterprise MPLS and Internet Backbone (Cisco Carrier supporting Carrier). Documenting network topologies and changes when doing regular BCP's. Protocols directly involved in supporting : IPv4, IPv6, BGP, VPN, MPLS/LSP/RSVP/RSVP-TE, OSPF, EIGRP, SSM/Multicast, SIP, DHCP, DNS, GPON, SNMP, Syslog, Tacacs, Python and more.

PROJECTS

- **Jan 2018 – Jan 2019.** IMS (IP Multimedia System) implementation and service migration from the legacy NVS system
- **July 2018 – Dec 2018.** Network automation. Network test and support through python.
- **Sept 2017 – June 2018.** Edge network upgrade from Cisco ASR9k Cluster to MCLAG across the country.
- **May 2016 – Sept 2017.** Network Migration to IPRAN. Significantly reduced OPEX
- **July 2017.** Under 18 IAAF. Ensured implementation and high availability for the international event that had 50,000 spectators. Gave the IAAF technical team 1G link for uploading the streaming content and real-time feeds during the event.

EDUCATION AND CERTIFICATIONS

- DevOps Engineer by Edureka – ongoing
- Cisco NPDESI – pending certification
- Advanced Customized ATN & CX600 Mobile Backhaul Operation and Maintenance Training
- Solarwinds - Network Performance Monitoring operator based on FCAPS, Cork Ireland
- Certified GPON planner, installer and operator, Huawei Academy – Hangzhou China
- Certified Ceragon & Radwin equipment specialist and operator, Tel Aviv Israel
- Prince 2 Agile Practitioner- Pending certification
- Prince 2 Agile Foundation – certified
- Scrum studies Foundation – certified
- ITIL Foundation – certified
- Strathmore University BSc Telecommunications, Honors 2nd Upper class of 2014
- Kenya Certificate of Secondary Education, Brookshine High School Kenya. 2006-2008

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last updated on April 2019

Language: English, Kiswahili

Hobbies: Photography, Singing, Cooking, Swimming and other outdoor activities

REFEREES

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