

Professional Summary

Paul Muchene is a computer scientist with over eleven years of experience in the Internet industry.

Being thrice selected as an ICANN Fellow, and twice respectively as both an Internet Society Fellow to the Internet Engineering Task Force (IETF) and the Internet Governance Forum (IGF), Paul is an avid technologist who firmly regards the open Internet architecture and holds that this model is worth defending and preserving for posterity.

He currently works at the iHub an innovation and co-working space in ████████ Kenya where he enjoys tinkering new technologies and helping people find unconventional solutions to challenging technical problems.

When he is not troubleshooting, Paul can be found revelling in Classical music and Opera, and occasionally relishes an outdoor hike.

Work Experience

Technical Manager: iHub Nairobi (2011-Present)

- Hosting of a mirror copy of the ICANN L-Root Name Server (**nbo01.l.root-servers.org**)
- Owner and administrator of the Autonomous System Number (**ASN**) **327938**
- Planning, administration and management of the core Internet infrastructure including deployment of native IPv6 using dual stack
- Overall administration of the ihub.co.ke domain name resource records and name servers.
- Tweaking and troubleshooting devices (routers, switches, smartphones, and practically anything that reads binary)

Technical Lead: Twenty-Four Interactive (2009-2014)

- Administration of Web and DNS servers and services
- Website development and programming using the LEMP/LAMP stack.
- Training of DNS engineers using the BIND implementation.

Systems Administrator Volunteer: Kenya Internet Exchange Point (2009)

- Configured Mail, Web and DNS servers in FreeBSD
- User support in rectifying and troubleshooting technical problems

Web Developer: Nairobi Net Ltd (2007-2008)

- The position entailed building Content Management System (CMS) websites using the LAMP stack and administering Windows and a couple of FreeBSD boxes.

Technical Intern: KENIC (2005-2006)

- UNIX/LINUX systems administration: Installation, configuration and troubleshooting of Web, DNS and mail servers in FreeBSD and Redhat Enterprise Linux.

Skills

- DNS (in both BIND and PowerDNS implementations) and DNSSEC skills
- DNS Trainer: I have trained groups of engineers to implement DNS
- Server Administration in any UNIX/LINUX operating systems
- Routing in both BGP and OSPF
- Network Security
- Programming in C/C++, Python, R, Assembly and OpenCL
- Technical writing

Education

- Bachelor of Science in Computer Science (BSc): University of Nairobi [REDACTED]
- An autodidact having completed 10 MOOCS (Massive Open Online Courses) from Coursera primarily courses in Heterogeneous Parallel Programming, Scientific Computing and Securing Digital Democracy

Honours and Awards

- Three times recipient of the Internet Corporation for Assigned Names and Numbers (ICANN) fellowship
- Two times recipient of the Internet Society Fellowship to the Internet Engineering Task Force (IETF) in 2012 and 2013
- Two times recipient of the Internet Society Ambassador the annual Internet Governance Forum (IGF) in 2011 and 2012

Causes and Initiatives

- Random Hacks of Kindness (RHOK) judge and mentor (2011-2012)
- Election monitoring of 2013 Kenyan at the Uchaguzi initiative that captured incidents via the Ushahidi crowd-sourcing platform

Affiliations

- Internet Engineering Task Force (IETF): Member in both the DANE and DNSOps working groups
- Internet Society: Both Global member and member of the Kenyan Chapter
- ICANN: Fellow Alumni and member in ALAC
- AFNOG: Contributed towards training engineers in both UNIX and DNS

Personal Accomplishments

- Summited Mt Kilimanjaro Africa's highest mountain (5,895m ASL) and the world's highest freestanding mountain on New Year's day of 2011.
- Summited Kenya's highest mountain Mt Kenya reaching Lenana Peak (4,985m ASL) on 31st August 2011