

Joseph Nyugoh Ngigi

Curriculum vitae

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*If you need inspiration to do something, don't do it. Elon
Mask*

Education

- 2014– **Degree**, *Bachelors of Science in Mathematics and Computer Science*, Taita Tavete University, Voi.
- 2010–2013 **KCSE**, *Kiambu High School*, A-, 75.

Experience

- Jan 2018 – **Freelance web developer**, *Online platforms*.
present On Fiverr and Kuhustle, I help my clients build state of the art applications using Nodejs and the related technologies. Applications range from APIs to Backend systems. I have helped clients integrate with other systems and add features to existing ones and help scale. I also debug and write unit and integration tests for new and existing apps.
- Jan 2017– **Software developer**, *Magnum Digital Limited*, Kenya.
- May 2018 At Magnum Digital we help businesses and institutions to transition to a digital way of doing things by building solutions to suit their goals.
- Detailed achievements:
- o Design and develop Hospital Management System and a Point of Sale software;
 - o As the lead developer I was responsible for the following:
 - Identify and fix bugs and bottle-necks in the systems;
 - Redesigning the systems to suite different customer needs and infrastructure;
 - Deploy the HMIS to large clients;
 - Integrate the HMIS with NHIF and Pesapal payment system;
 - Deploy and maintain software on the GCP(Google Cloud Platform) and AWS(Amazon Web Services);
 - Perform periodic system maintenance of the systems for our clients;
 - o Develop custom solutions for our clients
 - o Convert online applications to work offline without internet connection
 - o Develop a CRM system to manage clients accounts through which they make yearly payments for software licenses.

Open-source and side projects

2016–Present **Opens source enthusiast**, *Open Source contributor*.

I believe the world is a better place because of open source software, besides that, contributing to open source projects is a great opportunity to learn and gain experience working on real world projects.

Open source projects I contribute to:

- Jarvis Personal assistant, (Python version);
- Hospital Run (Ember.js)
- Fountain of Hope Children (React)
- Lite coin (C++)

■ Programming Languages

Frontend Languages ○ HTML
○ CSS
○ Javascript
○ jQuery

Backend Languages ○ PHP
○ Nodejs

Frontend Frameworks ○ Ember
○ React

Backend Frameworks ○ Express.js
○ Hapi.js
○ CodeIgniter

Software/App Development ○ Electron
○ C++
○ Go

Scripting ○ Python
○ Shell

Software Testing ○ Mocha
○ Chai
○ Jasmine

■ Technical skills

Linux Operating system ○ Server configuration and setup
○ Deploying multiple instances on bare metal (MAAS)
○ Setting up backup and RAID storage
○ Adding a SSL certificate

- Cloud infrastructure
 - o Containerization using Docker and Kubernetes for deploying software on the cloud
 - o Load balancing for robust applications
 - o Deploying apps on the following cloud infrastructures: PAAS, IAAS, and FAAS
 - o Deploying multiple apps on the same cloud

- Servers
 - o Setting up a Apache or Nginx server
 - o Using Nginx as a static file server or a load balance or a proxy server
 - o Setting up a new domain from the ground up
 - o Setting up a file, mail and DNS server

- Networking
 - o Application networking
 - o Router and switch configuration
 - o LAN DSN configuration

- Databases
 - o Familiar with the SQL family: Mysql, SQL Server, SQLite, PostgreSQL
 - o A firm understanding of the following NoSQL databases: MongoDB, CouchDB, PouchDB and Redis

- Software Development tools
 - o Git for version control
 - o Docker for isolated development environment
 - o Text editors and professional IDEs (JetBrainslde Suite)

- Upcoming technologies
 - o I have been keeping an eye on blockchain applications such as Bitcoin, Litecoin and the Ethereum platform. I have a general idea of how they can revolutionize the world and make it better.
 - o In the field of Artificial Intelligence, am fascinated by machine learning and Internet of Things. Am working on making my contributions to humanity by making contributions along the lines of machine learning.

Interests

- Hobbies
 - o Listening producing making Electric Dance music
 - o Road trip adventures
 - o Watching ancient legendary movies

References

1. CEO, Founder Magnum Digital Limited Kenya
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