JOSEPH MUGAMBI NDWIGA

A seasoned developer with specialization in data and Engineering analysis. Looking to offering top-notch services in software engineering and dev-Ops with a bias into these two fields

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| ***Key skills and knowledge areas:***   * A rich set of skills in programming and software development. * Years of experience in object oriented development. * Data mining. Web crawling and web scraping, software engineering. * Data analysis, machine learning, deep learning. * Dev-Ops and Cloud Computing (AWS, GCP) * Solid command of technologies, tools and best practices in designing mechanical equipment using AutoCAD, Autodesk inventor, SolidWorks and engineering drawings. * Excellent shop and safety skills honed from work as a machinist and welder. Able to design and fabricate tooling and mechanical test fixtures.​ * Strong team collaboration skills. Work closely with team members to achieve technical goals.​ |

**Education**

JKUAT.

## ****Bachelor of Science in Mechanical Engineering (2011 – 2014).****

**ALX / Holberton School**

**Professional Course in Software Engineering (2021 – Ongoing)**

* **Technical Skills**
* **MATLAB:** 10 years’ experience programing in MATLAB / Simulink and running various analyses including mathematical analysis; numerical solutions; FEA / CFD; data analysis; bioinformatics; control systems analysis; PDE solution; image segmentation; machine / deep learning; software development; embedded systems and IoT etc
* **Python:** 6 years’ experience programing in python Scientific computation; FEA / CFD; data analysis; web development; android scripting; software development; PDE solution; machine / deep learning; embedded systems and IoT etc.
* **Linux / Unix:** I have worked using both Windows and Linux systems in the course of my career. I have however taken special interest in Linux and Unix technologies including shell scripting (bash); GNU technologies (emacs, vi etc); and a detailed know-how of beneath-the-hood structure and operation Unix-based operating systems.
* **Other programming / Mark-up languages**: C / C++ (expert level) ; Arduino (intermediate level) ; UML (intermediate) ; JavaScript(intermediate level); latex markup(intermediate); html markup (intermediate); Java (intermediate level) ; SQL(Intermediate).
* **Technologies:** MySQL, postgresSQL, mongoDB, GCP, AWS, Kubernetes, Docker, AutoCAD, SolidWorks, MS Excel, MS Word
* **Other Skills**

1. **Team work**
2. **Mediation**
3. **Time-management**
4. **Customer service**
5. **Leadership**

**Work experience**

**Computer-Aided Drafting, Drawing and Design:** freelance contractor 2012 – present.

1. Well known as a skilled draftsman capable of designing anything on AutoCAD, Autodesk Inventor and SolidWorks; as well as running any simulations according to specifications or instructions.
2. Able to coordinate and supervise technical jobs; carry out appraisal and write the necessary reports.
3. Able to work very productively in a team with perfect synergy to accomplish tasks to above required standards and well on time.

**Product Developer:** Hewbe 2016 – 2019.

1. Developing software; mechanical design of various products; embedded design and fabrication;
2. IoT in general.

**Developer / Programmer:** Tyondo Enterprises 2019 – 2021.

1. Collaborated with project managers to select ambitious, but realistic coding milestones on pre-release software project development.
2. Revised, modularized and updated old code bases to modern development standards, reducing operating costs and improving functionality.
3. Used critical thinking skills, decisive judgment and worked with minimal supervision
4. Developing software; mechanical design of various products; embedded design and fabrication; IoT in general.

**Web Scraping / Crawling:** freelance contractor 2016 – present.

Using Python / Bash to scrape websites and provide the data in a form most convenient for the client. Self-employed, gig marketplace.

**Software Development / Scripting:** freelance contractor 2016 – present.

Using MATLAB, Python; C; shell to develop software for clients; as well as carrying out web scripting using python. Self-employed, gig marketplace.