



John Mahugu &lt;johnmahugu@gmail.com&gt;

## Thanks for applying to VillageReach

**Workable** <noreply@candidates.workablemail.com>  
To: johnmahugu@gmail.com

Mon, Jun 10, 2024 at 4:46 PM



Your application for the **Senior Data Engineer** job was submitted successfully.

Here's a copy of your application data for safekeeping.

### Personal information

Name	john mahugu
Email	<a href="mailto:johnmahugu@gmail.com">johnmahugu@gmail.com</a>
Headline	application for employment
Phone	+254 722925095
Address	32631-00600 nairobi kenya

### Profile

#### Experience

2020 - 2023	<b>Database Administrator &amp; Software Engineer at Tangaza University College</b> (over 2 years) Experience: Database Administrator and Software Engineer at Tangaza University (Duration: [time period]) In my previous role at Tangaza University, I acquired extensive
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experience and expertise in database administration and software engineering. Some notable achievements during my tenure include:

Successful implementation of a new database management system, resulting in improved data accessibility and reduced response time. Designed and developed a web-based application for student enrollment, streamlining the registration process and reducing manual paperwork.

Ensured the security and compliance of critical data by implementing robust backup and disaster recovery procedures. Collaborated with faculty and staff to develop custom software solutions tailored to their specific needs, resulting in increased efficiency and productivity.

Conducted regular database performance tuning, resulting in improved system performance and reduced downtime.

Provided technical support to end-users, addressing their queries and resolving issues promptly to minimize disruption in operations.

Overall, my experience at Tangaza University has equipped me with the necessary skills, knowledge, and expertise to excel as a Database Administrator and Software Engineer at any organization. I am confident in my ability to contribute effectively to the organization's database management and software development initiatives.

2017 - now

**ICT Specialist at Self-employed** (over 7 years)

2004 - now

**Regional Principal Solutions Developer / Creative Director at Foxant Solutions Limited** (over 20 years)

<https://www.linkedin.com/redir/suspicious-page?url=foxant%2eco%2ecc> | e: [foxantsolutions@gmail.com](mailto:foxantsolutions@gmail.com); Ø

Increased client satisfaction through improvement of service delivery and doubled sales, through revamp of software development and implementation methods

Ø Created new products that increased earnings by 23%. Authored training manuals to facilitate in inhouse staff training and client support.

Ø Developed the first open source PHP OOP MVC/ CAV Framework from africa.

Ø First to Host an open source CRUD class on google code. (kescrud)

Ø Translation of popular wiki and other opensource projects.

Ø Implementation of the first All African open source Logo & Design Repository

Ø Created an online Radio Streamer, and Audio & Visual Media Player (internet based)

Ø Chairman of the Open Source Community Africa (OSCA) that aims to promote the profitable implementation of opensource solutions especially the dissemination of pertinent information on how to best harness the power of the

internet to your advantage  
 leveraging on the cloud computing model i.e. Software As A Service  
 approach to  
 application districution like the Google Chrome Operating System  
 ,or Google Docs.  
 Called i-Office© . Have created 126 websites and 7 books on ICT  
 (Focus Publishers).

#### 2000 - now

**Software Engineer at Python Software Foundation** (over 24 years)  
 Ø Increased client satisfaction through improvement of service  
 delivery and doubled  
 sales, through revamp of software development and implementation  
 methods  
 Ø Created new products that increased earnings by 23%. Authored  
 training manuals to  
 facilitate in inhouse staff training and client support.  
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 Framework from africa.  
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#### Summary

Dear Hiring Manager,

I am writing to express my interest in the vacant position of IT Manager / Web  
 Developer / software engineer / database administrator / graphic & UX designer or  
 any other position in your ICT department . Please find attached my application for  
 your consideration. With over 23 years of experience in various capacities as a  
 software engineer, fullstack developer, web designer, and graphics designer, I  
 believe I am an excellent candidate for this vacancy.

In my previous role as the database administrator at Tangaza University, I was  
 responsible for all administrative tasks related to database management. I also

developed software and provided user ICT support, training, and assistance to staff, students, and lecturers in using the institution's systems. Additionally, I handled issues with the institution's website.

I would like to highlight my recent projects, which include setting up and configuring everything on a Contabo cloud server running Ubuntu. This involved various technologies such as Python for cronjob automation and a backoffice API, PHP, Node.js for concurrency, NGinX as a reverse proxy, OpenLiteSpeed for SSL certificates and domain server, and LAMP stack with both PostgreSQL and MariaDB. I also implemented end-to-end messaging encryption using AI-powered help desk and chat bot, utilized Redis and RabbitMQ, set up a mail server, and integrated M-Pesa (mobile money) and credit card processing gateways. Additionally, I have experience with user tracking, CRM, and ERP systems.

My skillset includes proficiency in languages such as Python, Ruby, JavaScript, PHP, and SQL. I am experienced in DevOps engineering and SCRUM methodology. I have

worked with various databases including MySQL, MongoDB, MSSQL Server, Cassandra,

Firebase, SQLite, and Google Big Table. I am well-versed in development frameworks such as Ruby on Rails, Sinatra, Django, Flask, CodeIgniter, and WordPress. I also have expertise in web and app servers like Apache and Amazon Cloud. Furthermore, I am skilled in graphic and web design using tools such as Corel Draw, Adobe Suite, Blender 3D, and Inkscape. I am also knowledgeable in DevOps, CI&CD, CSS styling, and Bootstrap engineering.

In terms of handling sensitive data, I strictly adhere to all relevant policies and procedures in the workplace. I use secure methods of communication, ensure secure storage and proper disposal of sensitive information, and maintain appropriate discretion when discussing sensitive topics.

I am excited about the opportunity to join your organization and believe that my skills and experience make me a perfect fit for this role. I am available for a long-term association and am eager to contribute to the success of your organization.

Thank you for considering my application. I look forward to the possibility of discussing my candidacy further.

Sincerely,

John Mahugu +254722925095

32631 - 00600, Nairobi, Kenya.

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Github : <https://github.com/johnmahugu>

Code Repository : <https://pastebin.com/u/mahugu>

Website : <https://sites.google.com/view/mahugu>

Certificates : <https://www.freecodecamp.org/mahugu>

professional Body : <https://www.python.org/users/johnmahugu/>

latest jobs: <https://jobsbank.gy>

<https://dairypesa.com>

<https://villacarekenya.com>

<https://tangaza.ac.ke>

<https://bushprincess.com>

I have experience using a variety of tools, programming languages, frameworks, and platforms in Python full-stack web development. Some of the tools and technologies I have worked with include:

1. Programming Languages: Python, JavaScript
2. Frameworks: Django, Flask, React
3. Frontend Technologies: HTML, CSS, JavaScript, React
4. Backend Technologies: Django, Flask, Node.js
5. Databases: PostgreSQL, SQLite, MongoDB
6. Version Control: Git

I have also worked with platforms such as Heroku for deployment and have experience using Docker for containerization.

In terms of areas of interest, I am particularly passionate about backend development and user interface design. I enjoy creating responsive and visually appealing web applications that engage users and provide a seamless user experience. Additionally, I have a keen interest in backend development and database management, as well as exploring new technologies and tools to enhance my skills as a full-stack developer.

More Certificates : <https://www.freecodecamp.org/mahugu>

Resume

resume.pdf

## Details

### Answers

Thank you for your interest in VillageReach. A cover letter stating your interest in this job and explaining how you meet the required qualifications IS REQUIRED. The letter will be considered as a sample of your writing ability and will be further evaluated for correctness and attention to detail. Please copy and paste your cover letter into the box below.

Dear Hiring Manager,

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Are you eligible to live and work in Kenya without employer sponsorship? If you answer no, you will be disqualified from this position as we do not currently sponsor employees for work permits.

Yes

What specific large-scale ERP/business system implementation projects and integration experiences prepares you best for success in this role.

Implemented a full ERP system running at [www.njuca.co.ke](http://www.njuca.co.ke) this covers 3 integrated factories, one for producing chicken feed, a metal fabrication factory and a heavy equipments / construction company all belonging to the same owner so needed centralized reporting on all his business concerns.

Briefly outline specific accomplishments that bring out your demonstration of the key technical competencies listed in the job description in real project implementation

former database administrator at Tangaza university <https://www.tangaza.ac.ke>

This role is highly technical – describe the relevant specific business systems/technologies/data and analytics tools hands-on skills and your self-assessment of the mastery level for each ( levels: 1. Foundational 2. Competent 3. Experienced, 4. Master/expert)

Here is a description of the relevant business systems/technologies/data and analytics tools, along with a self-assessment of the mastery level for each:

**\*\*Business Systems/Technologies:\*\***

1. **\*\*Salesforce CRM\*\***: I have hands-on experience with Salesforce, including creating and managing custom objects, workflows, and reports. I can also use Salesforce's API to integrate with other systems. Mastery level: 3. Experienced
2. **\*\*Microsoft Office Suite\*\***: I am proficient in using Microsoft Office applications such as Excel, Word, PowerPoint, and Outlook. I can create and edit complex spreadsheets, documents, and presentations. Mastery level: 2. Competent
3. **\*\*Google Analytics\*\***: I have experience with Google Analytics, including setting up and tracking website analytics, creating custom dashboards, and analyzing data to inform business decisions. Mastery level: 3. Experienced
4. **\*\*Amazon Web Services (AWS)\*\***: I have basic knowledge of AWS, including its

cloud computing services such as EC2, S3, and Lambda. I can use AWS to deploy and manage applications, as well as store and process data. Mastery level: 2. Competent

**\*\*Data and Analytics Tools:\*\***

1. **\*\*Python\*\***: I have hands-on experience with Python programming language, including data manipulation and analysis using popular libraries such as Pandas, NumPy, and Matplotlib. Mastery level: 3. Experienced
2. **\*\*R\*\***: I have basic knowledge of R programming language, including data visualization and statistical analysis using popular libraries such as ggplot2 and dplyr. Mastery level: 1. Foundational
3. **\*\*Tableau\*\***: I have experience with Tableau, including connecting to data sources, creating dashboards, and visualizing data to inform business decisions. Mastery level: 3. Experienced
4. **\*\*Power BI\*\***: I have basic knowledge of Power BI, including creating reports and dashboards using Power BI's drag-and-drop interface. Mastery level: 2. Competent
5. **\*\*SQL\*\***: I have hands-on experience with SQL, including writing queries to extract and manipulate data from relational databases. Mastery level: 3. Experienced

**\*\*Self-Assessment Notes:\*\***

- \* As an experienced professional in the field, I am confident in my ability to use these tools and technologies effectively.
- \* While I have a strong foundation in many of these tools, there are some areas where I could improve my skills through further training or practice.
- \* My mastery level is generally higher for tools that I have used more extensively in my previous roles or projects.

Note that this is just a self-assessment and may not reflect the actual level of expertise or proficiency required for the specific role or industry.

[Withdraw this application](#)

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