Ichinga Samuel

Software Developer

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Summary

I am a productive and motivated **Software Developer** proficient in both functional and object-oriented programming paradigms, I am quick at **Learning** and **Mastering** new frameworks and languages.

I am more of a **Backend Developer** but can build **FULL STACK Web Apps** in the **MEAN** Stack as well as with **Django Web Framework** and can manage **DevOps** workflows and **CI/CD** pipelines with **GitHub Actions**. I am capable of writing elegant and maintainable code in Python and JavaScript for solving general-purpose problems. I can also handle the building, deployment, and running of apps with **Docker** container technology and **Kubernetes.**

Work Experience

Software Developer | Research Assistant
October 2018 - Present

Michael Okpara University of Agriculture

Built a digital library for the Mechanical Engineering Department using Node.js and Google Cloud Storage.

Used Minimum Spanning Tree Algorithms to find the optimal path for laying water pipes in the University's main campus.

Developed a Knowledge Based Engineering System for the production of a palm oil extracting machine

Designed and developed a GUI application that uses knowledge Based Engineering to design Palm Oil Processing Machines.

Developed an application that designs Gating Systems for Gray Iron Casting.

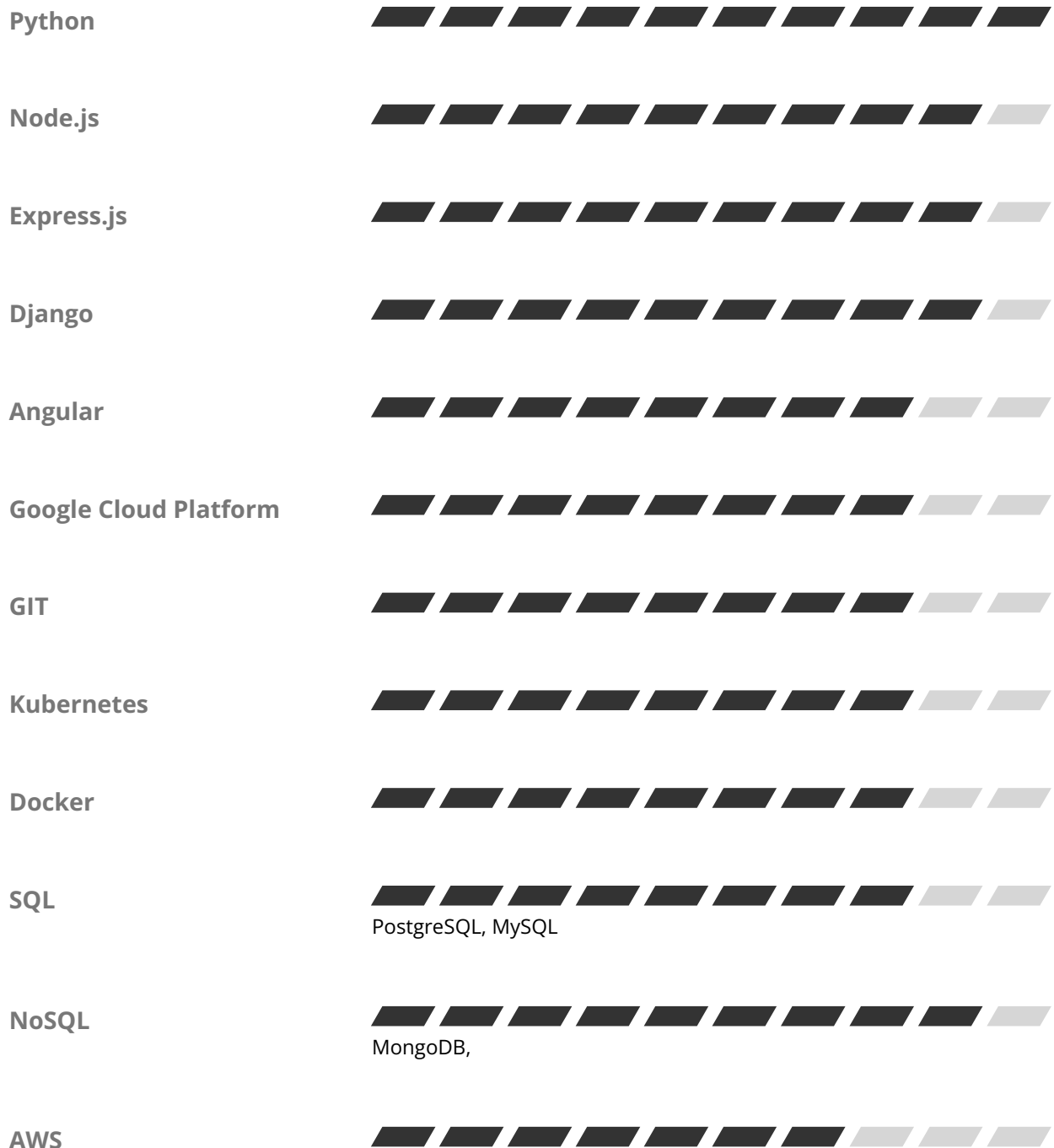Designed Experiments for researchers using DOE methodologies.

Projects

- **The African Ebook Library: A Digital Library for African Literature.**
  - **Ebook versions of classic and current African books are developed and stored in cloud storage.**
  - **Books are accessible for public download via a web app built with Angular.**
  - **A public API for authors and books implemented with MongoDB and Express.js**
  - **New writers can submit their work through the web app.**

    https://tael-744fb.web.app/
    https://tael-313422.nw.r.appspot.com/

- **Hackers News**
  - **Obtain news, stories, jobs, comments, replies, polls from hackers news API**
  - **Save data to Google Cloud SQL.**
  - **Use Mail Jet SMTP for account verification and password reset.**
  - **Run scheduled CRON job in the cloud to get latest stories from hackers news API**
  - **Technology Stack: Django, GCP**
  - **https://groovy-works-328500.ew.r.appspot.com/**

- **DevOps.**

  - **Can create CI/CD pipeline for deploying apps to Google App Engine using GitHub Actions (https://github.com/Ichinga-Samuel/Book-Lovers.git)**
  - **Used Docker and Kubernetes to build and deploy to the cloud.**

Skills

Python

Node.js

Express.js

Django

Angular

Google Cloud Platform

GIT

Kubernetes

Docker

SQL

PostgreSQL, MySQL

NoSQL

MongoDB,

AWS

Education

Bachelors in Engineering: Mechanical Engineering   September 2013 - July 2018

Michael Okpara University of Agriculture

Certifications

- DJANGO FOR EVERYBODY SPECIALIZATION, UNIVERSITY OF MICHIGAN VIA COURSERA.
- DEEP LEARNING SPECIALIZATION, DEEPLEARNING.AI VIA COURSERA
- GOOGLE IT AUTOMATION WITH PYTHON PROFESSIONAL CERTIFICATE
- OPEN SOURCE SOFTWARE DEVELOPMENT, LINUX AND GIT VIA COURSERA
- ARCHITECTING WITH GOOGLE COMPUTE ENGINE
- ARCHITECTING WITH GOOGLE KUBERNETES ENGINE SPECIALIZATION