

John Kwame Dunyo

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EDUCATION

Kwame Nkrumah University of Science and Technology

Kumasi, Ghana

Bachelor of Science in Computer Engineering, First-Class (Honors)

August 2017 - November 2021

Coursework: Data Structures and Algorithms, Distributed Systems, Machine Learning, Operating Systems, Database Management Systems, Software Project Management, Software Engineering Methods

TECHNICAL SKILLS

Programming: Python, JavaScript, PHP
Frameworks: Reactjs, Nodejs, Expressjs, Bootstrap
Data Management: SQL, DBMS (MySQL, SQL Server), MongoDB, Firebase
Cloud: Amazon Web Services (AWS)
Tools: Matlab, PowerBI, Git

EXPERIENCE

Broadspectrum Ghana Ltd.

Accra, Ghana

Junior Software Engineer

November 2021 – Present

- Built and optimized a restful API for the company's lunch ordering application using **Nodejs**, **Expressjs** to enhance seamless lunch ordering in the company
- Developed and built the server-side logic, defined and maintained the central database of the company's lunch application to ensure high performance and responsiveness to requests from the front-end
- Assisted in optimization and revamping of the eAgric Platform used to enumerate all farmers in the country by gathering requirements, writing user stories, design documentation and sequence diagrams while adhering to standard agile software development practices

Moreplex Company Ltd.

Kumasi, Ghana

Lead Software Developer

June 2021 - Present

- Collaboratively worked with CEO, marketing team and 2 developers to enhance look & feel of the company's website by optimizing and coding its responsive design using **Reactjs**, **HTML5**, **CSS3**, **media queries**
- Developed an optimized architecture for the company's eCommerce and eSkills learning applications to enhance customer experience and satisfaction

Magmarkd Private Ltd.

Pune, India

Python Developer (Remote)

April 2020 – November 2020

- Designed and implemented data modeling processes and predictive models to extract data from existing business database using **Python pandas** and **numpy** libraries and then visualized it with insights using **PowerBI** on a newly developed web application
- Proposed standard coding structures to improve code efficiencies and reduce overall project lifespan by 25%

FarmSens Company Ltd.

Kumasi, Ghana

Team Lead

June 2019 - Present

- Co-founded the startup team for developing and manufacturing a smart low-cost soil testing technology for farmers in Ghana and spearheaded fundraising and pitching with innovation hubs and NGOs resulting in over \$8,000 in grant funding
- Led team in designing the software infrastructure for the successful deployment of the FarmSens soil sensors

RESEARCH & PROJECTS

The NotesApp

Accra, Ghana

Personal Project

April 2022

- Built and deployed an easy-to-use, fast and responsive note taking software application to allow users to take, edit and delete notes and media files and seamlessly track them with reminders using **Reactjs**, **Nodejs**, **Expressjs**, and **MongoDB**

Optimized Occupancy Detection and Localization Model

Kumasi, Ghana

Research under Eur. Ing. Benjamin Kommey (Undergrad Dissertation)

June 2020 – Present

- Researched and proposed an optimal edge detection algorithm in computer vision applications based on key performance metrics such as **mean signal to noise ratio** and execution time using **MATLAB simulink**
- Proposed a 25% optimized model to locate and detect room occupancy for resource-constrained embedded computing devices using **python's openCV**, **HOG**, and **SVM classification**
- Published the work in the November 1, 2022 (Vol 6) edition of Journal of Information Technology and Computer Engineering (JITCE)