

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, Software Project Management, Software Engineering Methods

Distributed Systems, Machine Learning, Operating Systems, Database, Management Systems,

TECHNICAL SKILLS

Programming: Python, JavaScript/TypeScript, PHP
Frameworks: Reactjs, Nodejs, Expressjs (TypeORM), Bootstrap, Tailwindcss
Data Management: SQL, DBMS (MySQL, PostgreSQL, 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 a restful API, developed the server-logic, and maintained the central database for the company's lunch ordering application using Nodejs, Expressjs to ensure low latency responsiveness to requests from the front-end.
- Built a Laravel (PHP) application to automate NEDco power purchase reconciliations by retrying failed transactions, crediting, or debiting customers based on transaction status while saving cost by 20% and improving customer experience.
- 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

- Designed, built and successfully shipped MESA, an eSkills learning platform for Moreplex Company Ltd, using Reactjs, Tailwindcss, TypeORM(Expressjs) and PostgreSQL.
- Led team to develop an AI product recommender system using AWS Lex that gathers and analyses customer data and provides customer-problem specific product recommendation. (This was funded by MEST Africa).
- Designed an optimized systems architecture using AWS cloud services for the company's general website, eCommerce and eSkills sites and implemented them with a team of 2 developers to boost performance and improve customer service

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%.

RESEARCH & PROJECTS

MESA; Moreplex eSkills Learning Platform

August 2022

- Designed, built, and successfully shipped MESA, an eSkill learning platform for the Moreplex Company Ltd, using Reactjs, Tailwindcss, TypeORM (Express), and PostgreSQL.

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 Nov. 1, 2022 (Vol 6) edition of Journal of Information Technology and Computer Engineering.