

# John Kwame Dunyo

Accra, Ghana

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## Summary

Software Engineer with 3 years of full stack web and application software development, specializing in Python, PHP and JavaScript (TypeScript). Skilled in leveraging technology to create value for customers and stakeholders, with expertise in product ideation, design, development, and launch. Strong background in software development, including expertise in front-end and back-end technologies, and software architecture and system design. Committed to delivering high-quality, high-availability and performant products that exceed customer expectations with domain experience in digital payments, eLearning and eCommerce field.

## TECHNICAL SKILLS

Programming:	Python, JavaScript/TypeScript, PHP
Frameworks:	<u>Frontend</u> : Reactjs/Nextjs, Vuejs, Svelte, Bootstrap, TailwindCSS, Chakra UI, GSAP <u>Backend</u> : Laravel, Nodejs, Expressjs (TypeORM, Prisma), tRPC, Firebase
Data Management:	SQL, DBMS (MySQL, PostgreSQL, MS SQL Server), MongoDB, Firebase
Cloud:	Amazon Web Services (AWS),
DevOps & Testing:	TDD, Docker, Jest
Ticketing & Monitoring:	Jira, Trello, Linear, Sentry

## WORK EXPERIENCE

### BROADSPECTRUM GHANA LTD. (Digital Payments & Market Place)

Accra, Ghana

#### Software Developer

November 2021 - Present

- Built a highly scalable admin portal for NEDCo Pay using Next.js, NextAuth.js, (Typescript) and Tailwind CSS, allowing for efficient management of meters, transactions, customer complaints, and ticketing.
- Built a revamped and responsive web portal for NEDCo Pay to facilitate purchasing of power, management of meters and complaints, and improving overall customer experience using Next.js, NextAuth.js, (Typescript) and Tailwindcss.
- Collaborated effectively with cross-functional teams, including designers, QAs, and product managers, to ensure successful deployment of NEDCo Pay, serving over 2 million customers in Ghana.
- Built a restful API, developed the server-logic, and maintained the central database for the company's lunch ordering application using Node.js (Express.js) 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.

### [Kurz.ai](#)

#### Software Developer (Contract – Part time)

Mannheim, Germany

January 2023 – April 2023

- Collaborated with a team of two developers to build a scalable and progressive web application for practical CNC programming learning for the KELLER Group in Germany using T3-Stack (Next.js, NextAuth, Prisma, Typescript, Tailwindcss & tRPC).
- Implemented best practices for software development, including unit testing and code review, to improve code quality and maintainability.

### [Ananse Hub](#)

#### Developer and Support Engineer III (Contract – Part time)

Accra, Ghana

September 2022 – February 2023

- Fixed around 70 UAT bugs and optimized code to enhance responsiveness, availability, and low latency; Stacks used include Next.js (Typescript), Tailwindcss, Express.js, MongoDB.
- Built and integrated a custom real-time chat portal into the main application to improve user experience using mongoose, Firebase FCM and Express.js.

### MOREPLEX COMPANY LTD.

#### Software Lead (Part time)

Kumasi, Ghana

June 2021 – Present

- Designed, built, and shipped MESA, an eSkill learning platform for Moreplex Company Ltd, using React.js, Tailwindcss, TypeORM (Express.js) and PostgreSQL.
- Led team to develop a MEST-funded AI product recommender system using AWS Lex that gathers and analyses customer data and provides customer-problem-specific product recommendations.
- 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.

### MAGMARK PRIVATE LTD.

#### Python Developer (Remote)

Pune, India

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 and optimized system architecture to improve code efficiencies and reduce overall project lifespan by 25%.

## PROJECTS

[MushCart](#): An online retail shop of African made products.

December 2022

- Built a restful API for handling all eCommerce operations using Prisma, Express (Typescript), PostgreSQL.

**FarmSens: Smart Soil Testing Device**, Kumasi, Ghana

**Apr. 2019 – Present**

- Co-founded the startup team for developing and manufacturing a smart low-cost soil-testing technology for farmers in Ghana.
- Designed, built and deployed mobile and web applications to interface the sensors to provide real-time soil test data and extension advise to farmers.
- Spearheaded fundraising, pitching, and negotiating with innovation hubs resulting in over \$8,000 in grant funding.

## **EDUCATION AND TRAINING**

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**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,