DANIEL OWUSU MENSAH

Software Engineer

danielowusumensah1998@gmail.com | 0248837934 | Accra, Ghana

Linkedin | GitHub | HackerRank | LeetCode

EDUCATION

Kwame Nkrumah University of science & technology — kumasi,Ghana
Electrical/Electronic engineering Bachelor of science — 2017 - 2025

Altschool Africa — Lagos, Nigeria
Software Engineering Diploma — february, 2023 - 2024

EXPERIENCE

Electricity company of Ghana | Electrical Engineer intern   Accra | April, 2020 - November, 2020

- Supported load flow and stability analysis using industry-standard software, enhancing grid efficiency.
- Participated in site visits to key electrical facilities, gaining practical insights into substation operations and distribution systems.
- Compiled and analyzed electrical system data, contributing to projects aimed at grid reliability enhancement.
- Supported cybersecurity initiatives to safeguard electrical network data and infrastructure.
- Collaborated in the design and development of user-friendly interfaces for internal software tools like ECG adempiere software

Electricity company of ghana | Software engineer   Accra, Ghana | November, 2021 - November, 2023

- Played a key role in the development and optimization of the ECG energy management software, improving system efficiency and user accessibility.
- Leveraged advanced data analysis techniques to interpret complex electricity usage data, contributing to more efficient grid management strategies.
- Actively involved in the expansion and integration of SCADA systems, enhancing automation and real-time control of electrical networks.
- Collaborated with electrical engineers and IT specialists to align software solutions with operational needs, ensuring seamless grid functionality.
- Provided ongoing technical support, resolving software-related issues to maintain high operational efficiency and system
- Participated in Agile project management processes, contributing to timely and effective delivery of software development projects.

Capital Placement | Software Engineer   Remote | March, 2024 - Present

1. I implemented RESTful APIs to support client-side applications
2. I created efficient indexing strategies to optimize query performance
3. I implemented OAuth2 authentication for social media login (e.g., LinkedIn) and integrated it with job board APIs to aggregate job listings
4. I developed connectors for applicant tracking systems (ATS) used by client companies
5. I implemented caching strategies using Redis to improve application performance
6. I developed internal APIs for reporting and analytics
7. I wrote unit tests using Pytest to ensure code quality and prevent regressions

SKILLS

Programming Languages:	Python, Javascript, SQL
Libraries/Frameworks:	Django REST framework, FastAPI, SQLAlchemy, Pandas (for data processing), NumPy (for numerical operations), Pytest (for testing)
Tools / Platforms:	Git (version control), GitHub or GitLab (code repository and CI/CD), Docker, Nginx, Postman, Swagger or ReDoc, Jupyter Notebooks, Amazon Web Services
Databases:	PostgreSQL, MySQL, MongoDB, Redis

PROJECTS / OPEN-SOURCE

Blog App | Link   *Python, fastAPI*

- Developed a dynamic blogging application leveraging FastAPI as the core backend framework. This project was aimed at enabling users to create, edit, and view blog posts with a robust user authentication system. The application's architecture was designed to support multiple users with distinct profiles, enhancing interactivity and content diversity.
- This project showcased my ability to build a full-fledged web application with complex backend functionalities, demonstrating my skills in Python, API development, and user authentication.

Smart Power Monitoring App | Link *Javascript, C++, Dart, PHP, HTML, CSS, Ruby*
- Developed an innovative Smart Power Monitoring App, designed to track real-time power consumption of electrical gadgets in Ghana. This project was a comprehensive solution integrating a smart socket device with a user-friendly application interface. The application was built using a diverse tech stack, including JavaScript, C++, Dart, PHP, HTML, CSS, and Ruby, ensuring robust performance and seamless user experience.
- This project demonstrated my capability to manage and execute a multifaceted application that integrates hardware with a sophisticated software solution, highlighting my versatility and skill in full-stack development and IoT integrations.

CERTIFICATIONS

- Software Engineer - **Hackerrank**

HONORS & AWARDS

- Won KNUST Engineering Education Project (KEEP) Hackathon in 2021 with a cash price of 20,000 Ghana cedis at Kwame Nkrumah University of Science & Technology