SAMUEL KWAME OSEI

Aberdeen, UK | nana.k.osei.99@gmail.com ; s.osei.24@abdn.ac.uk | +44 7555 831806

EDUCATION

M.Sc. Artificial Intelligence, University of Aberdeen   **2024 – 2025**

Key Courses: Symbolic AI, Machine Learning

Projects:

- **Hexagram Puzzle Solver:** Developed a solver in Python for constraint satisfaction and heuristic search.
- **Hurkle World Knowledge Base**: Built a knowledge base using First-Order Logic and the AIMA-Python library for inference.
- **Song Recommender**: Built a song engine model that recommends 10 songs to a user based on the songs they have listened to.

B.Sc. Computer Science, Kwame Nkrumah University of Science and Technology   **2017 – 2021**

Key Courses: Database Concepts and Technologies, Algorithms, Data Structures, System Analysis and Design, Programming with C++

Projects:

- **Automated Attendance Checker**: Proposed a smart, secure and efficient way of taking attendance utilizing android smartphones and QR codes.

EXPERIENCE

Software Developer

W3S Ghana Limited, Accra   **2022 – 2024**

- Analyzed software requirements and proposed solutions to identified problems.
- Developed upgrades and fixes for enterprise solutions in the Eflux Suite of banking software using PHP, ColdFusion, Html, CSS, Bootstrap, JavaScript and jQuery.
- Leveraged REST and SOAP APIs to seamlessly integrate and enhance functionality within the Data Repository system.
- Led software testing and quality assurance to ensure compliance with software specifications and standards.
- Collaborated with cross-functional teams to develop and implement software solutions.
- Engaged in code reviews and software design meetings.
- Provided technical support to customers and end-users.

IT Support Assistant (National Service Personnel)

District Health Directorate, Ningo-Prampram   **2021 – 2022**

- Diagnosed and resolved software issues across departments to maintain system functionality.
- Set up and maintained essential equipment, including printers, photocopiers, and projectors.
- Entered COVID-19 vaccination records into the DHIS2 system, ensuring accurate public health data for the district.
- Co-supervised registration attendants during the distribution of long-lasting insecticidal nets (LLINs), maintaining orderly records for this public health initiative.
- Drafted memorandums and other official documents to support effective communication within the directorate.

SKILLS & ABILITIES

- Proficient knowledge in PHP, JAVA, Python, ColdFusion, Html, CSS, Bootstrap, JavaScript, and jQuery.
- Proficient in Linux, Unix, and Windows systems, with a strong command over commands and configurations.
- Proficient knowledge in Database (MySQL, Oracle, SQL, MS SQL).
- Well-versed in the technical knowledge of software development methodologies, programming languages, and testing frameworks.
- Highly skilled in the writing of technical documentation for software products.
- Ability to work collaboratively in a team environment.
- Excellent knowledge in the use of SOAP and REST APIs.

PROJECTS AT W3S GHANA LIMITED

EFlux Suite – family of enterprise solutions built for African Banks

- Implemented an improved version of a trading software by name Tradflux.
- Upgraded and added new features to CSD application at Ecobank Ghana.
- Improved the search and export features on the dashboard of Eflux applications used at Unity Link, Fidelity and Access Bank which enabled the retrieval of large sums of data in a short space of time.
- Engaged in the design, development, testing, and implementation of the front end of Eflux products, resulting in a 25% increase in customer satisfaction ratings.
- Collaborated with cross-functional teams, including business analysts, project managers, and quality assurance teams, to deliver high-quality software solutions on time and within budget.
- Integrated the Eflux products with third-party systems, resulting in a streamlined and efficient banking experience for customers.
- Adopted agile development methodologies, resulting in a 30% increase in development speed and a 20% reduction in development costs.
- Continuously monitored and improved the Eflux products, resulting in a 15% reduction in customer support requests and a 10% increase in system uptime.
- Presented the Eflux products to key stakeholders, resulting in a successful product launch and increased market share.

Data Repository – a family of products which enable modern day banking processes tailored with the end user in mind.

- Installed ColdFusion application server on Linux and windows servers at Ecobank Ghana and Fidelity bank.
- Seamlessly integrated the Data Repository system with third party REST and SOAP APIs from institutions like ECG, Hisense, KNUST Basic School, ODEX, EP Church among others at Ecobank Ghana.
- Co-ordinated with senior developer to resolve a 5-year long issue with Bank to Wallet and Wallet to Bank transactions at Ecobank.
- Designed shell scripts to automate common administrative procedures such as restarting ColdFusion server instances, and to facilitate the installation of API certificates on Linux servers.
- Continuously troubleshooted real-time issues for data repository products.