ALIF OSMAN OTOO

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SUMMARY _

Aspiring tech professional with strong foundation in computer engineering and hands-on experience in Mobile and web Development, UI/UX and Graphic design, IT support, network installation, and surveillance maintenance as well as ML and AI enthusiast. Seeking to leverage technical expertise and problem-solving skills in a dynamic tech environment to drive innovation and efficiency.

EDUCATION _

Kwame Nkrumah University Of Science And Technology, *BSC. Computer Engineering* | Kumasi, Ghana . GPA: 67 / 100

Expected graduation date : Nov 2024

Relevant Courses: Computer Vision and Robotics | Software Engineering | Computer Networking | Database and Information Retrieval | OOP(C++) | Secure Network Systems | Data Structures and Algorithms (C++) | Distributed Computing (AWS)

RESEARCH EXPERIENCE _

Kwame Nkrumah University Of Science and Technology (Computer Engineering Department, 2024)

Jan 2024 - Aug 2024

Development and Implementation of IoT Device for Precision Agriculture

- Led a 3-person team to research and develop an IoT device with a machine learning based model for making analysis and predictions to help in crop yield.
- Developed an IoT system for precision agriculture that utilized Machine Learning to analyze and predict farmland conditions, enabling wireless data transmission and real-time decision-making for farmers.
- Integrated sensor data into a user-friendly platform, assisting farmers in regulating fertilizer usage and minimizing reliance on assumptions, thereby enhancing overall agricultural efficiency and productivity.

Review of Cyber-Physical Systems for Mitigating Dumsor | Secure Network Systems

June 2024 - Aug 2024

- Conducted comprehensive literature review and analysis of existing cyber-physical systems (CPS) implementations in mitigating dumsor, synthesizing findings into actionable insights for future research and policy development.
- Collaborated with domain experts to assess technological feasibility and socio-economic impacts of CPS applications
 in improving grid reliability and resilience against power outages, contributing to informed decision-making in energy
 management strategies.

WORKING EXPERIENCE _

Wilmar Africa Limited *IT support National Service Personnel (User support & Networking)* | In person (Accra, Ghana)

Oct 2024 - Present

- Assisted in the installation and maintenance of network and surveillance systems p.
- Provided IT support, resolving technical issues and ensuring smooth operations.
- Conducted regular system checks and updates to enhance network security and performance .

JustGo health Ltd, *UIUX Intern* | Remote (Accra, Ghana)

Aug 2023 - Oct 2023

- Conducted user research and usability testing to gather feedback, iteratively refining designs to meet user needs and enhance overall usability and satisfaction .
- Designed intuitive and visually appealing user interfaces for JUSTGO health's digital platforms, ensuring a seamless and engaging user experience across web and mobile applications .

Ghana Specialty Fats and Industries Ltd, Wilmar IT support Intern (User support & Networking) | In person (Accra, Ghana)

Oct 2023 - Dec 2023

- Assisted in the installation and maintenance of network and surveillance systems p.
- Provided IT support, resolving technical issues and ensuring smooth operations.
- Conducted regular system checks and updates to enhance network security and performance .

TEACHING EXPERIENCE _

Trail Support Tutor, Kwame Nkrumah University Of Science and Technology (Computer Engineering Department)

Sept 2023 - Present

 Providing assistance and guidance to students who are navigating new academic paths, especially those preparing for supplementary exams. **Peer Tutor,** Kwame Nkrumah University Of Science and Technology (Computer Engineering Department)

May 2021 - Present

- Provided one-on-one and group tutoring sessions to help peers understand complex concepts, improve academic performance, and develop effective study strategies.
- Created customized learning materials and resources tailored to individual learning styles and needs, fostering a supportive and collaborative educational environment.

SKILLS _

Languages C/C++, HTML, CSS, Javascript, SQL, React Native, Python

Database PostgreSQL, Appwrite

Tools and Technologies Linux, Tensorflow, Adobe Photoshop, Adobe Illustrator, Figma, CorelDraw, Eagle, Visio

Typesetting Microsoft Word, LATEX

PROJECTS_

Mobile Banking App | Software Engineer

Feb 2023 - April 2023

- Created responsive and user-friendly interfaces for banking applications using React.js, ensuring seamless navigation and accessibility across devices.
- Collaborated with UX/UI designers to implement designs and prototypes, focusing on improving user experience and incorporating feedback loops to improve usability metrics.

Agro_predict_app | Expo Project

Feb 2024 - April 2024

- Developed an agriculture-focused mobile application using React Native.
- Implemented machine learning algorithms to predict crop yield based on environmental data, contributing to sustainable farming practices.

Arduino-based Environmental Monitoring System |Final Year Project

Jul 2024 - Sept 2024

- Designed and developed an environmental monitoring system using Arduino Uno, temperature, and soil moisture sensors.
- Simulated and tested the system using Proteus, focusing on accuracy and reliability in real-time data collection.

PROFESSIONAL TRAINING AND CERTIFICATE.

AWS Academy Cloud Foundations | Amazon Web Services

Jan 2024 - Feb 2024

AWS Academy graduate Data-Engineering | Amazon Web Services

Feb 2024 - March 2024

AWS Academy Cloud Developing | Amazon Web Services

Feb 2024 - April 2024

AWS Academy Cloud Semester two | Amazon Web Services

March 2024 - April 2024

Networking Devices and Initial Configuration |Cisco Networking

Jan 2024 - Feb 2024

Network Technician Career Path | Cisco Networking

Feb 2024 - March 2024

Network-Support-and-Security | Cisco Networking,

Feb 2024 - March 2024

Networking-basics |Cisco Networking

March 2024 - April 2024

VOLUNTARY/EXTRA-CURRICULAR ACTIVITY

Founder, (KL-Techub) | Graphic Design, Mobile and Web development, UI/UX

Sept 2023 - Present

- Established and led KL Techub, a technology solutions firm specializing in web and mobile development, UI/UX design, and graphic design, driving business growth and client satisfaction through innovative and high-quality services.
- Oversaw a diverse team of developers and designers, managing projects from concept to completion, ensuring timely delivery, and maintaining excellence in all aspects of design and development .