

Sekpey Herbert Setor Kwame

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EDUCATION

Kwame Nkrumah University of Science and Technology – Kumasi, Ghana

Graduating Nov 2025

Major: BSc. Computer Science

Relevant Coursework : Object-Oriented Programming in Java, Programming with C++, Visual Basic.NET, Assembly Language, Mobile Application Development with React Native

EXPERIENCE

Digital Applied Learning and Innovation Lab – Hanover, New Hampshire

Feb 2024 - Present

Software Engineer (Part-time)

- Developed mobile, web, and AR/VR applications in scrum teams for various partners using React, React Native, and Unity.
- Created and integrated frontend features for the Plastic Sorting App, PlastiSmart, enhancing recycling efforts with an image recognition model.
- Delivered high-impact solutions for business partners across industries while balancing coursework.
- Presented projects to over 100 students and faculty, showcasing innovative digital solutions.
- Technologies: React, React Native, Typescript, Unity, Tensorflow, Python, Express, Node.js, MongoDB

Willbear.io Financial Aggregation Startup – Remote, UK

Oct 2022 – Jan 2023

Front End Developer Intern

- Implemented user-friendly interfaces for real-time data visualization and interaction.
- Collaborated with the backend team to integrate machine learning models for market prediction and analysis, enabling investors to make better-informed decisions.
- Assisted in testing and debugging the application to ensure optimal performance and user experience.
- Technologies: HTML, CSS, Javascript, Python, PHP, Apache

PROJECTS

Innovative Gesture-Controlled Interface - [Github](#)

- Developed a program enabling mouse control via hand gestures using OpenCV and Mediapipe.
- Implemented precise hand tracking and gesture recognition, providing hands-free, ergonomic interaction.
- Enhanced accessibility and productivity with customizable, intuitive controls for users with mobility impairments.
- Achieved high accuracy in gesture detection, validated through extensive testing and positive user feedback.

PlastiSmart - [Github](#)

- Contributed to the development and deployment of the Plastic Sorting App, PlastiSmart.
- Collaborated with data developers to integrate an advanced image recognition model.
- Developed the frontend functionality to identify plastic polymers based on Resin Identification Codes (RIC) and other visual cues.
- Implemented the recognition model to provide users with detailed information about each type of plastic polymer and appropriate recycling protocols.
- Promoted sustainable recycling practices by educating users on proper plastic disposal methods.

SKILLS AND INTERESTS

- Java, C++, JavaScript, Python, HTML5, CSS, React, React Native, Node.js, Express, Django, OpenCV, Numpy, Git, Github, Linux

CAMPUS INVOLVEMENT

- **Google Student Developer Club**, Member, KNUST, March 2023-Dec 2023
- **TechStripped Africa - KNUST**, Workshop Lead, Feb 2024 - Present