

# JEPHTHAH AGYENIM BOATENG

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## EDUCATION

Kwame Nkrumah University of Science and Technology (KNUST), Ghana

Graduated Nov 2021

**Major:** Geomatic Engineering. **Honors:** Second Class - Upper Division

**Relevant Coursework:** Information Science and Programming, Database Systems, Information Technology, Geographic Information Systems, Photogrammetry, Satellite Geodesy, Cartography

## WORK EXPERIENCE

### Kehillah Global, Software Engineer Intern

Nov 2022 - Present

- Collaborating with the team to build a scalable web platform for an investment and real estate company.
- Creating an interactive user interface with ReactJS, custom NPM packages, Tailwind CSS, and custom CSS.
- Implementing REST route endpoints, relational database models, and utility functions in Python Django.
- Engage in weekly knowledge-sharing workshops and conduct multiple code reviews.

### Cartography Laboratory - KNUST, Research Assistant

Oct 2021 - Sept 2022

- Served as teaching and research assistant for field survey practicals which involved about 120 students.
- Wrote Python scripts (used Pandas, Numpy, and Geopy) to read and process geolocation data in CSV format.
- Populated PostgreSQL database with data and wrote multiple queries for analysis and decision-making.

### Ghana Lands Commission, Land Surveying Intern

June 2019 - Sept 2019

- Demarcated lands by using GPS instruments to get boundary points and mark them.
- Used AutoCAD to plot land plans after calculating the area from readings made with GPS instrument
- Used Quantum Geographic Information System (QGIS) for mapping and locating land features.

### Nyame Tumi So Auto parts, Salesperson / Analyst

April 2017 - Sep 2017 & June 2018 - Sept 2018

- Determined and recorded replacement parts required.
- Organize to create a convenient shopping experience for customers.
- Tracked retail budgets to ensure profits and performed inventory management.

## SKILLS AND PROFICIENCIES

- **Programming languages:** Python, JavaScript
- **Experience with:** Microsoft Excel, Microsoft Word, React, Tailwind CSS, Django, PostgreSQL, HTML, CSS, Figma, Quantum Geographic Information System (QGIS), Adobe Illustrator, AutoCAD, Adobe Photoshop, , Designing, UX/UI, Data Science,
- **Acquainted with:** French,

## PROJECTS

### Bkretivs Website

<https://bkretivs.netlify.app>

- An animated website for a startup that provides IT, designing, and software solutions
- Integrated interactive features to make it progressive for direct launch on the mobile home screen. Built with React, SCSS, and Tailwind CSS

### StudyPot Learning Website

<http://www.studypot.org>

- A responsive website for the medical sciences. Contains recorded lessons on Anatomy and Biochemistry.

- Integrating light mode and dark mode using Embedded JavaScript (EJS) and CSS. Revamping user interface to increase accessibility and mobile friendliness.

#### **Face and Motion Detector**

[Github repo-link](#)

- Used Python OpenCV package to read images and .xml files to locate and detect faces within images
- Performed background subtraction with a still captured image from any subsequently captured image in order to trace differences between the two images. Utilized Python Pandas, Numpy and OpenCV

## **PUBLICATIONS**

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### **The case of electoral polling station Data for geocoding in facilitating social, economic, and cultural opportunities in Ghana | QGIS, Excel, Python, PostgreSQL**

[Publication Link](#)

- Collected GPS coordinates using Google Earth and OpenStreetMap
- Did distance and network analysis using QGIS
- Wrote an article on results and findings for publication.