

Christabel ACQUAYE

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📍 <https://christland.github.io/portfolio/> 📍 Accra, Ghana

WORK EXPERIENCE

July 2016- Present Day	Intern and Tutor Emerging Leaders in Technology and Engineering, (ELITE), Accra, Ghana <ul style="list-style-type: none">➤ Designing curriculum used in tutoring students during the ELITE Camps.➤ Tutoring girls in web development, embedded system design using arduino, python and Machine Learning using Tensorflow.➤ Assisting girls in their project design and development.
Sept. 2019- July 2020	Teaching Assistant National Service Secretariat, (KNUST), Kumasi, Ghana <ul style="list-style-type: none">➤ Assisted lecturers in teaching these courses; Computer Architecture, Semi-conductor Devices, Engineering Technology(Introduction to Hardware Programming using Arduino)Basic Electronics, Embedded Systems, and Digital Signal Processing.➤ Organized online tutorials to help students keep up with their academics during the COVID-19 pandemic period.➤ Organized tutorial sessions for students to help them gain a deeper understanding of the course.➤ Marked quizzes, lab reports, assignments and preparing continuous assessment for students.➤ Assisted in the development of activity manuals for students to use during lab activities.➤ Assisted students with school and personal projects.
June 2018 July 2018	Computer Engineering Intern Electricity Company of Ghana, ACCRA, Ghana <ul style="list-style-type: none">➤ Diagnosed, troubleshooted and resolved hardware related issues➤ Installed tailor-made ECG software and Operating System➤ Assisted in the training of ECG staff on the use of software used in operations.
June 2017 July 2017	Computer Engineering Intern Ghana-India Kofi Annan Centre of Excellence in ICT, ACCRA, Ghana <ul style="list-style-type: none">➤ Diagnosed, troubleshooted and resolved network and internet related issues➤ Assisted in the organization of the auditorium and classrooms during different tech organized talks and meetings as well as organized short courses including introduction to programming and other related courses.➤ Developed a Linux Infrared Air conditioner controller (LIRC) using a raspberry pi.

SKILLS

Programming Languages	Python, Embedded C, Java
Frameworks	ReactJS, React Native, Tensorflow
Databases	MySQL, PostgreSQL
Prototyping and Simulation Tools	Proteus, Fusion, Adobe XD, Figma
Software Collaboration Tools	Slack, Trello, Asana, GitHub, Google docs
Operating Systems	Ubuntu, Windows, Linux Mint, Debian
Development and Design Tools	IntelliJ Idea, Visual Studio Code, PyCharm, Code Composer Studio, Atmel Studio, Arduino, Eagle, Octave

HONORS AND AWARDS

Award	Sam Korankye Ankrah Excellence Awards for 2018/2019 Academic Year
Scholarship	Jerome Jackson Scholarship for highly motivated students in Computer Science and Engineering for the 2017/ 2018 Academic Year
Award	Best Female Computer Engineering Student for the 2016/2017 and the 2018/2019 Academic Year

PROJECTS AND PUBLICATIONS

GHANATOLL : BARRIER-FREE RFID TOLL COLLECTION AND MANAGEMENT SYSTEM FOR GHANA 2020

 [973-93-80901-11-1](#)

This paper presents an accountable method of toll collection in Ghana.

TIME TABLE SCHEDULING APP 2020

KNUST

This project creates an exam timetable using the genetic Algorithm.

ELECTRONIC TOLL COLLECTION SYSTEM 2018 - 2019

 [Final Year Project, KNUST](#)

This project presents a system that collects tolls from road users with little or no human interaction.

ERRANDA APP 2018 - 2019

 [Software Engineering II, KNUST](#)

This project presents a system that allows users post errands they want to be run so errand guys can bid and run the errands for a fee.

TRANSCRIPT ACCESSOR SYSTEM 2019

 [Hackathon 2019 Project, KNUST](#)




This project presents a system that uses the idea of block chain to allow individuals and institutions to access academic records.

AUTOMATIC MONOGRAPH ASSESSOR 2018

 [Artificial Intelligence Project, KNUST](#)

This project presents a system that takes the scripts of students containing essays they have written and grades according to a preset grade definition.

BOOKIT APP 2017

 [Software Engineering I Project, KNUST](#)

This project presents a system that allows students book buses to convey them to their destinations during school breaks and vacations

GEOLOCATOR WITH IMMOBILIZATION PROJECT 2018

 [IoT Project, Kumasi Hive](#)

This project presents a system that allows car owners track their vehicles from their mobile phones and also allows them immobilize their vehicles remotely

SMART FARM ASSISTANT 2017

 [IoT Hackathon, Kumasi Hive](#)

This project contains code for a mobile app that allows a farmer monitor details on his farm including the soil moisture percentage, temperature, humidity and so on.

INTERNET MONITORING SYSTEM 2016

 [Personal Project](#)

This system measures your internet speed used in making downloads and uploads.

OUTREACH AND VOLUNTEERING

- 2020 Faculty Scholarship Application Reviewer for the 2020 Grace Hopper Celebration (GHC 20)
- 2019 Royal House Students and Associates Academic Mentor, KNUST, Kumasi, Ghana
- 2017 KNUST Electronics Club Outreach to the University's Junior High School, Kumasi, Ghana
- 2017 KNUST Ambassador for General Electric during the Predix Challenge
- 2016 Emerging Leaders in Technology and Engineering, ELiTE, Accra, Ghana

TEACHING AND MENTORING

July 2016- Present Day	Tutor Emerging Leaders in Technology and Engineering, (ELiTE), Accra, Ghana <ul style="list-style-type: none"> ➤ Designed curriculum used in tutoring students during the ELiTE 2019 Camp. ➤ Tutored girls in web development, embedded system design using arduino, python and Machine Learning using Tensorflow. ➤ Assisted girls in their project design and development.
Sept. 2019- July 2020	Teaching Assistant Kwame Nkrumah University of Science and Technology, KUMASI, Ghana <ul style="list-style-type: none"> ➤ Assisted lecturers in teaching these courses; Computer Architecture, Semi-conductor Devices ➤ Organized tutorial sessions for students to help them have a deeper understanding of the course. ➤ Marked quizzes, lab reports, assignments and preparing continuous assessment for students. ➤ Assisted in the development of activity manuals for students to use during lab activities.
Sept. 2019- July 2020	Tutor KNUST , ELECTRONICS CLUB, Kumasi, Ghana <ul style="list-style-type: none"> ➤ Assisted in the training of club members in C programming ➤ Assisted in the training of club members in embedded system design

CERTIFICATIONS

September 2015 – July 2019	Bachelor of Science Degree Studies in Computer Engineering (First Class Honours), Kwame Nkrumah University of Science and Technology, Kumasi, Ghana,
August – October 2018	Certificate in Internet of Things, Kumasi Hive Incubator, Kumasi, Ghana
June – July 2017	Certificate in Database Management and Administration, Ghana-India Kofi Annan Centre of Excellence in ICT, Accra, Ghana,
June – July 2016	Certificate in Java Programming, Ghana-India Kofi Annan Centre of Excellence in ICT, Accra, Ghana
September 2012 – June 2015	West African Senior School Certificate Examination in General Science, Aburi Girls Senior High School, Aburi, Ghana,

LANGUAGES

English	● ● ● ● ●
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French	● ● ● ○ ○

LEADERSHIP/INVOLVEMENTS

- KNUST Electronics Club, General Secretary.
- Association for Computer Eng., General Secretary
- Royal House Students and Associates, Music Head
- Interns Representative(Electricity Company)
- IoT Network Hub
- AnitaB.org

CONFERENCES AND COMPETITIONS

- 2020 Juneteenth Conference, Online
- 2020 Women Techmakers IWD India Summit : Leadership, Online
- 2020 Advanced NanoScale Testing Solutions Colloquium, Kumasi, Ghana
- 2019 Debian Project's developer conference, DebConf, Curitiba, Brazil
- 2019 Competition : KNUST Hacklab, Kumasi, Ghana
- 2019 IEEE 2nd West – African Conferences in Circuits and Systems, Kumasi, Ghana
- 2019 The 8th International Sheroes Conference, Accra, Ghana
- 2018 Competition : Kumasi Hives' IoT Hackathon, Kumasi, Ghana
- 2017 NITA Conference : Open Data for Sustainable Development in Africa, Accra, Ghana

REFERENCES

Mr. Chelsey Roebuck
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Dipl. Ing Benjamin Kommey
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