

DAVID SASU
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EDUCATION

IT University of Copenhagen PhD. Computer Science – Natural Language Processing	Copenhagen, Denmark 2020 – 2024
Ashesi University BSc. Computer Science Graduated Summa Cum Laude with Highest Honours. Cumulative GPA: 3.87/4.0	Berekuso, Eastern Region August 2015 - June 2019

ACHIEVEMENTS/AWARDS

Full Academic Scholarship , Ashesi University	2015 – 2019
Dean's List , Ashesi University	2015 - 2019
Selected Delegate , Young Diplomats of Ghana	August 2017
Silver Medal , International Genetically Engineered Machine Competition	November 2017
Chairman's Award , International Genetically Engineered Machine Competition	November 2017
Millennium Fellowship , United Nations Academic Impact	August 2018
African Future Leader Fellowship , African Change Makers	August 2018
Student Excellence Award , Ashesi Uboa Excellence Awards	December 2018
Ashesi Innovation Award , Ashesi Uboa Excellence Awards	December 2018
Scholarship, Leadership & Citizenship Award , Ashesi University	June 2019

WORK EXPERIENCE

Software Engineer Intern University of Ghana Computing Systems Built a desktop application with Python to generate and organize student examination schedules. This saved the organisation from 2 weeks of manual data entry.	June 2016 – August 2016
Mathematics and Computer Science Tutor Ashesi University Organized weekly tutorial sessions for 50 students to enable them to fully understand concepts in Calculus, Algebra, Statistics and Quantitative Methods.	March 2016 – December 2016
Computer Programming for Engineering Tutor Ashesi University Organized weekly tutorial and lab sessions for 30 first-year engineering students to enable them to deeply appreciate and understand algorithms as well as programming concepts in Python, Java, C and C++.	September 2017- December 2017
Software Engineer Intern Ministry of Communication Ghana Built a meeting roster web application with HTML, JavaScript, CSS and the Google Firebase database framework to monitor the meeting attendance of 100 employees.	June 2018 – August 2018

Computer Programming for Computer Science Tutor
Ashesi University

February 2019 – May 2019

Organized weekly tutorial sessions for 30 first-year computer science students to help them to completely understand the basic concepts of programming in Python.

Research Engineer

May 2019 – July 2019

Prentke Romich Company - USA

I worked together with a team of 4 engineers to build a speech generation software which uses the morphological and syntactic rules of the Russian language to generate various Russian word forms. This software was used to help people with speech disabilities to communicate more effectively.

Computer Science Teaching Assistant

August 2019 – August 2020

Ashesi University – Ghana

Assist in the teaching of Algorithm Design, Pre-calculus, Operating Systems and Computer Organisation and Architecture. Also responsible for grading assignments and setting exams.

RESEARCH PROJECTS

International Genetically Engineered Machine Competition

May 2017 – November 2017

I was the Team Captain of Team AshesiGhana that solved the problem of environmental pollution in our country caused by improper small-scale mining methods by engineering bacteria that can detect, quantify and extract gold from the environment without causing any harm to the environment. Through the competition, I became familiar with biotechnology, genetic engineering concepts and its ethical implications. Link: <http://2017.igem.org/Team:AshesiGhana#!>

Natural Language Processing Systems for Low Resource Languages

August 2018 – May 2019

I researched on how to develop low cost Natural Language Processing Systems for Low Resource Languages by exploring cheap alternative sources of data that could be used to build machine learning models for language processing.

CO-CURRICULAR ACTIVITIES

President of Code the Change Club, Ashesi University College

September 2016 – April 2019

I led a team of 20 students to identify pertinent problems in the society which could be solved by technology and proposed them as projects to be executed by the club for each semester. Under my leadership, the club embarked on various projects such as the development of a hospital bed tracking software and an information management system for the Potters' Village Orphanage. I also led my team to provide weekly practical I.C.T lessons to 30 children at the Potters' Village Orphanage.

Technical Writer, Sweet Code Company Limited

October 2016 – Present

I write published technical articles which are centred around the topics of Artificial Intelligence, Software Engineering and Computer Programming. Link: <https://sweetcode.io/author/dsasu/>

SKILLS

Expert proficiency in JAVA, Python, C++, C, R, HTML, SQL, Assembly, JavaScript, PHP, Jupyter Notebook, Scikit - Learn and CSS.