Liberty Mupotsa

(895)979-4189 | [mupotsal@berea.edu |](mailto:mupotsal@berea.edu) Computer Science and Mathematics– Class 2022 [https://www.linkedin.com/in/liberty-mupotsa-56b43616b/ |](%20https://www.linkedin.com/in/liberty-mupotsa-56b43616b/%20|)<https://github.com/mupotsal>

# EDUCATION

Bachelor of Arts: Double Major: Computer Science & Mathematics Expected Graduation: May 5, 2022

Berea College, Berea, Kentucky GPA: 3.75 /4.0

# Honors:

* Four-year full-tuition scholarship (~$ 140 000), Berea College
* Selected as one of the 200 finalists nation-wide for the CODE2040 program, 2019.
* Dean’s List (Spring 2019), Dean’s List (Fall 2018), Dean’s List (Fall 2019)
* Selected as one of the 40 students for the United Students Achievers Program, Zimbabwe(2017)

# Relevant Coursework:

* Software Design and Implementation using Python, C ++ Data Structures, Discrete Mathematics for Computer Science, Calculus (II), Linear Algebra, Human-Centered Design.

# CAREER EXPERIENCE

Computer Science Teaching Assistant – Berea College March 2019– Present (Berea, KY)

* Provided in class and out of class assistance to 30 students per semester for Software Design and Implementation using C++ and Python programming languages.
* Recorded daily attendance in the Course Database.

# Human-Centered Design Research Assistant October 2019– Present (Berea, KY)

* Reviewed and edited data collected from Human-Computer relation research to ensure completeness and accuracy of information, follow up with subjects to resolve problems or clarify data collected.
* Assisted in the development of reports, grants, presentations, and data analysis from the research.

# Summer 2019 Sales Associate, Berea College May 2019 – August 2019(Berea, KY)

* Improved sales by 12% over four months by using data analysis skills to find consumer patterns and preferences.
* Managed financial transactions and balanced cash register professionally.

# TECHNICAL EXPERTISE

Technologies and frameworks: **Git Version Control, Cisco IOS, HTML, CSS, Bootstrap, Flask, Spark R,**

* Collaborated with three other students, and spearheaded the development of a photo filter using Spark R, which successfully worked on Instagram and Facebook.
* Maintain multiple GitHub repositories for personal organization and demonstration
* Cooperated with three other students to develop a software using C++ to convert text to Braille alphabet and simulated the output using LEDs.
* Utilized agile software development skills in app development using MIT app inventor.

**C++** programming language

* Redesigned the Beetle’s game using Object Oriented Programming techniques.
* Designed efficient algorithms to solve technical and software problems.

**Python** Programming Language

* Debug, test, and grade Python Programming projects for a class of 30+ college students in Labs and workshops, improving students' grades and fostering understanding of basic concepts.
* Rebuilt logic demanding games like rock-paper-scissors and Mad Libs.
* Modified software that encrypts and decrypt messages improving security by 10%.
* Developed more than eight mobile applications using MIT app inventor.

# INTERESTS

* Finances and Accounting, Software development, Web development Data analysis, and Data Science