

Liberty Mupotsa

(895)979-4189 | mupotsal@berea.edu | Computer Science and Mathematics– Class 2022
<https://www.linkedin.com/in/liberty-mupotsa-56b43616b/> | <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, Physics with Calculus

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.

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 which encrypts and decrypt messages resulting in more than 10% improved security.
- Developed more than eight mobile applications 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.

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 python programming language.
- Recorded daily attendance in the Course Database.

Human-Centered Design Research Assistant

October 2019– Present (Berea, KY)

- Review and edit 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.
- Assists in the development of reports, grants, presentation, and data analysis

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.

INTERESTS

- Software development, Open Source Software Engineering, Web development Data analysis, and Data Science