

CHRISTINE WAWERU

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EDUCATION

BROWN UNIVERSITY

Providence, RI, USA

Expected Graduation: May 2022

- Sc.B. Computer Science. | Minor: A.B. Africana Studies.
 - Cumulative GPA: 3.62 / 4.00.
 - Relevant Coursework: Algorithms and Data Structures, Object-Oriented Programming, User Interface and User Experience, Computer Systems, Applied Mathematics and Statistics.
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PROJECTS

Shell

- Implemented a command line interface program in C that replicates the Computer's Shell by parsing user input, executing built-in shell commands and handling errors from system calls and bad user input.
- Achieved handling of multiple processes by running them in the background, as well as managing processes with signal forwarding.

Malloc

- Executed a dynamic memory management program in C that utilizes a Heap to allocate blocks of memory, deallocate unused memory so it can be re-allocated and alter the size of a block of memory.

Decision Tree

- Implemented the ID3 algorithm incorporating Recursive Binary Splitting and Pruning to generate a decision tree that successfully classifies whether a mushroom is poisonous by its physical characteristics with 96% accuracy.
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EXPERIENCE

Undergraduate Teaching Assistant

Intro to Algorithms and Data Structures (Professor Seny Kamara).

January 2020 – May 2020

- Held two-hour weekly meetings tutoring students on Algorithms and Data Structures for sorting, searching, graph problems, and geometric problems in PYTHON and JAVA.
- Taught students how to analyze the time and space complexities of algorithms and how to implement them in homeworks and projects.

Intro to Object Oriented Programming (Professor Andy Van Dam).

September 2019 – December 2019

- Led four two-hour weekly sessions teaching Object-Oriented Design concepts such as Inheritance, Polymorphism and Encapsulation and programming in JAVA.
- Collaborated with 43 other UTAs to develop lesson plans and grade projects for 400+ students.

Artemis Project

Providence, RI, USA

Coordinator

January 2019 – August 2019

- Instructed 17 students with no prior programming experience in PYTHON and HTML/CSS with each student designing their own independent websites in five weeks.
- Led the effort to facilitate field trips, and to host guest speakers who exposed students of marginalized genders to the field of Computer Science and enhanced their self-confidence.

Brown University John D. Rockefeller, Jr. Library

Digital Studio Consultant

September 2018 – May 2019

- Assisted students in the development and execution of their creative digital projects and instructed them on the handling of a 3D printer, large format printer and audio and video recording equipment.
 - Maintained studio equipment, scheduled clean-ups and reviewed inventories weekly.
 - Managed reservations and liaised communication between administrators and students/researchers.
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SKILLS & TOOLS

- **Programming:** Proficient in JAVA, PYTHON, and C.
- **Development:** Proficient in HTML, CSS, and JavaScript.
- **Design Software:** Comfortable with SKETCH, FIGMA and InVision