CHRISTINE WAWERU

christine_waweru@brown.edu • (401)-710-2562 • github.com/Wambui-Waweru

LinkedIn: http://bit.ly/christinewaweru

EDUCATION

BROWN UNIVERSITY   *Providence, RI, USA*

- Sc.B. Computer Science. | Minor: A.B. Africana Studies.   *Expected Graduation: May 2022*
- 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.

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.

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.

SKILLS & TOOLS

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