

WORK EXPERIENCE

UVA, Department of CS | CS2110 Teaching Assistant

January 2021 – Present | Charlottesville, VA

- Helped students understand various data structures taught in class and their implementations
- Held 5+ office hours per week to review labs with students and answered questions about coding problems from that week's lecture

PERSONAL PROJECTS

Library Catalog – Java Application

- Developed a desktop application where librarians can review books and users that have a connection with the library
- Utilized the **JavaFX** Library to create unique and separate User Interfaces for Librarians and Users.
- Connected the respective portals to a central Library database to ensure both parties know the books that are available

Periodic Table Guide – Java Application

- Created an interactive desktop application using the **JavaFX** Library to help high school students understand & learn the periodic table
- Implemented a quiz system where students can test their understanding of the periodic table
- Constructed a word search game with a Graphical User Interface that generates a word search puzzle using random elements from the periodic table

Type Master – Python Game

- Used the **PyGame** Library to create a typing game that allows users to practice their typing while having an interactive game to make the task more enjoyable
- Utilized the **Hash Chaining** Data Structure to generate random words to type and store them for a speedy retrieval subsequently

EDUCATION

University of Virginia

BS in Computer Science

Expected May 2023

GPA: 3.63 / 4.0

Garfield High School

IB Diploma Recipient

Graduated May 2019

GPA: 4.6 / 5.0

Languages

Java

Python

C/C++

HTML

CSS

Frameworks

Django

PyGame

JavaFX

Terminal

GIT

Coursework

Data Structures and Algorithms

Software Testing

Digital Logic Design

Software Development Methods

Program and Data Representation

Introduction to Programming

Discrete Mathematics

Theory of Computation

Ordinary Differential Equations

Links

Github:// ayubs

LinkedIn:// ayubs