Ayub Shahab as9qp@virgina.edu | 571-260-7426

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:// ayubshahab
LinkedIn:// ayubs
Website: ayubshahab.github.io