Aayesha Islam

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Education

University of Florida (UF) - Gainesville, FL   *August 2021- May 2025*
Bachelor of Computer Science GPA: 3.83/4.0
- **Awards:** Dean's List (Fall 2021, Spring 2022, Fall 2022), Pearson Edexcel High Achiever Award (2019)
- **Relevant Coursework:** Programming Language Concepts, Intro to Software Engineering, Modeling and Animation, Data Structures and Algorithms, Discrete Structures, Computer Organization, Programming Fundamentals (Java and C++)

Skills

Skills: Java, C++, Python, Golang, SQL, HTML, Processing, SFML Graphics Library, OOP, Angular, TypeScript, Agile Methodology
Spoken Languages: English, Bengali, Urdu, Hindi, Arabic

Projects

GUI Discussion Forum App   *January 2023*
- Created a multi-purpose discussion forum App in Python using socket, tkinter, and threading to connect multiple clients to a server
- Used tkinter to display interactive GUI with welcome message, alerts when new clients join, and saved chat history
- Facilitated academic discussions using the App in Programming classes

Cosmetics Dupe Finder   *November 2022*
- Built a Pairing Heap and MinHeap in C++ to find affordable alternatives to expensive cosmetics from dataset of 100,000 options
- Designed program to have varies cosmetics options such as makeup, skincare, and haircare and sorting ability by brand and rating
- Compared performance of Pairing Heap by analyzing time of execution and reduced search time complexity from $O(\log n)$ to $O(1)$

Minesweeper   *March 2022*
- Implemented the Simple and Fast Multimedia (SFML) library in C++ to create the GUI for a Minesweeper clone
- Utilized object-oriented programming to create the game board, incorporating mouse control to execute flagging tiles, additional developer buttons and win/loss conditions
- Leveraged recursion to implement in-game functionality of clearing empty tiles

Student Info Tracker   *January 2022*
- Assembled a custom Doubly Linked List to store information of Sunday school students to optimize element insertions and removals from linear time $O(n)$ to constant time $O(1)$
- Implemented 20+ functions to create a user-friendly API using C++, templates, pointers, and Object-Oriented Programming (OOP)

Resume Website   *July 2022 - Present*
- Built resume using HTML to showcase profile photo, experience, involvements, and projects in a professional manner
- Modifying using CSS to make an interactive website with an intuitive and user friendly layout

Experiences

Undergraduate Teaching Assistant | Paid position at the University of Florida   *January 2023- Present*
- Led a 40-student weekly hour discussion section for Computer Organization on computer processing, architecture, and memory
- Assisted and created course material, assignments, projects, in-class lectures, exam questions, and graded exams and assignments
- Hosted weekly 2-hour office hour sessions answered questions about ARM Programming and debugging project code

Intern | Logistics Committee | Society of Asian Scientists and Engineers (SASE)   *September 2022- December 2022*
- Operated event with an attendance of 250 people and budgeted for diverse food options such as vegan and gluten free within $300
- Handled merchandise sales and performed tasks such as taking stock, deciding prices, advertising, and delivering to customers
- Audited all expenses made by committees in a spreadsheet and requested purchase orders from the SASE Bank account

Fiscal/Budgeting Team | The Society of PC Building at the University of Florida   *January 2023- Present*
- Managed the purchases, finances, and budget request applications between SPCB and the Student Government of UF
- Marketed and got approval for $2000 for purchase of various PC parts and $500 for food at events and club merchandise

Socials Chair | Association of Computer Engineers (ACE) at the University of Florida   *September 2022- Present*
- Organized and advertised social events catered towards CS, CPE and other STEM major students to promote networking
- Corresponded with the Treasurer to procure budgets of over $100 for organizational events and fundraisers
- Arranged events with multiple organizations to facilitate diversity and teamwork

Adab Chair on Executive Board | Islam on Campus (IOC) at the University of Florida   *August 2022- Present*
- Administered event plans to ensure they are in accordance with the professional standards of Islam and the University of Florida
- Executed IOC speaker events, social and religious events with an average attendance of 150 people of diverse cultures and ethnicities
- Reviewed IOC documents, interviewed members, and reported suggestions to the general body at meetings every week

Teacher | Sunday School at the Hoda Center   *September 2022- January 2023*
- Taught 10-15 elementary age students Arabic and Islamic Studies for 5 hours every Sunday at the Hoda Center Mosque
- Coordinated with other teachers to assign and grade homework, make tests, regulate Whatsapp group, and classroom setup

Moderator | Online Programming Community at the University of Florida   *June 2022- Present*
- Leader in community development for a server of 14000+ students of CS classes, including Programming 1&2 and Data Structures