Asiya Aliye

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SUMMARY

Enthusiastic senior computer science student with strong foundations in algorithms, data structure and object oriented programming eager to secure exciting internship opportunities.

EDUCATION

Bachelors of Science, Computer Science   Expected Graduation Dec 2025

Arizona State University, Ira Fulton Schools of Engineering, Tempe, AZ   3.65 GPA

TECHNICAL SKILLS

Programming Languages: Java, C, C++, Python, HTML, CSS, JavaScript

Tools, Databases, and OS: Visual Studio Code, Command Line (ci/cd), Eclipse, IntelliJ, GitHub, Git, Linux/Unix, MacOS

Interests: Artificial Intelligence, Robotics, Front/Back End Development

Coursework: Data Structure and Algorithms, Computer Organization and Assembly Language, Intro to Software Engineering, Principles of Programming Languages, Operating System, Introduction to Theoretical Computer Science

ACADEMIC PROJECTS

Memory Management Linux Project   May 2024
- Leveraged Linux for memory management implementation within kernel module.
- Designed a kernel module to traverse the page tables of a given process to determine: how many pages are present in physical memory, how many pages swapped out to disk, and how many pages are in the process working set.
- Tools/Languages: C, Oracle VM VirtualBox, Linux

Mini Compiler Project   April 2024
- Developed a compiler for a simple language by generating an intermediate code representation.
- Interpreted the generated list of instructions, enabling the compiler to traverse the data structure.
- Tools/Languages: C++, Visual Studio Code

Planning Poker Software Design Team Project   November 2023
- Collaborated in a team of four to assess major risks impacting the successful demonstration of Planning Poker solution.
- Utilized an agile process with regular scrums to ensure effective communication.
- Led a risk reduction prototype initiative for an implementation aspect of EffortLogger V2.
- Produced multiple project deliverables including UML diagrams, user stories, risk reduction prototype, and concept of operation.
- Tools/Languages: Astah UML, Eclipse, Git, GitHub, Java, JUnit, Scene builder

C++ Graphs and Algorithm Project   November 2023
- Implemented a variant of Dikjkstra's algorithm to compute a shortest path from source to destination.
- Built directed and undirected graphs from files, processed instruction from stdin and executed corresponding actions.
- Tools/Languages: C++, Visual Studio Code

ACTIVITIES

Black Student in Computer Science (BSxCS)   Dec 2023 – Present
- Multiple leadership roles, including Co founder and Community Service Chair.
- Foster a supportive and inclusive environment for all members.
- Partnered with local organizations to plan and execute events aimed at promoting computer science education and opportunities to Black students.

National Society of Black Engineers at ASU - Member   Dec 2023 – Present
Women in Computer Science at ASU - Member   Dec 2023 – Present

OTHER WORK EXPERIENCE

HonorHealth Osborn Hospital, Scottsdale, Az: Volunteer   Aug 2022 – Dec 2023
- Coordinate between nursing personnel and patient specific to enhancing patient experience.
- Provided technical support for basic troubleshooting of hospital admin computers and software used in patient care areas.