

Omar Abuasba

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SKILLS

Languages: Java | Javascript | Python | C | C++ | Scheme | HTML | CSS

Frameworks: Cheerio | Puppeteer | Bootstrap | Node.js | JQuery

Tools & Technologies: Windows | WSL (Windows Subsystem for Linux) | Ubuntu | Git

Coding Concepts: Object Oriented Programming | Data Structures and Algorithms | REST APIs

EDUCATION

Ira A. Fulton Schools of Engineering, Arizona State University, Tempe, AZ

May 2026

Barrett, the Honors College

GPA: 4.0

Next Generation Service Corps, Public Service Academy

Bachelor of Science, Computer Science

Certificate, Cross-Sector Leadership

Relevant Coursework: Data Structures and Algorithms, Computer Organization and Assembly, Leadership and Change

Awards: New American University Scholarship: Provost's Award, Public Service Academy Award, Dean's List (Fall 2022 - Spring 2024), Excellence in Engineering Leadership Scholarship (Spring 2023)

PROJECTS

Depop API Web Scraper (Javascript)

May 2024 - Jun 2024

- I worked with a team to construct an API for Depop using Node.js, Puppeteer, and Cheerio.
- Implemented functionality to retrieve a seller's information, current products, as well as the 25 most recent reviews.
- Tested functionality using local host and SoapUI.

Shortest Path (Dijkstras) Implementation (C++, Repo available upon request)

Mar 2024 - Apr 2024

- Implemented Dijkstras shortest path algorithm using C++ and optimized efficiency to handle the processing and searching of the shortest path between 170,000+ nodes in under 5 seconds.
- Explored and calculated shortest paths over 10 million nodes, with repetition, in under 1 minute.
- Customized user input to process incoming nodes when starting the program and place them into the correct adjacency list.
- Developed a custom priority queue using a minheap and position tracker to correctly track nodes as they are searched and updated.

PROFESSIONAL EXPERIENCE

Incoming Research Fellow, Urban Climate Research Center @ ASU

Aug 2024

- Expected to work on developing climate models using Fortran and analyzing data using Python.

Project Management Intern, National Hospitality Management / Sun West Custom Homes

May 2023 - Aug 2023

- Utilized OptiSigns and Google Slides to begin foundational work to implement digital signage in 10 hotels, responsible for internal communication among Corporate, Hotel Management, and Employees.
- Shadowed the development of a server room responsible for 50+ computers and telephones at a Hilton Hotel.
- Assisted with the preparation of a 120-room hotel, ensuring all rooms were up to company standards.
- Created 4 detail drawings for the Design Team to assist with the development of a 45,000 sqft mansion.

LEADERSHIP EXPERIENCE

Peer Leader, Fulton Accelerated Community Engagement (FACE)

Aug 2023 - May 2024

- Led 2 teams across different campuses, totaling 12 students through the program, providing guidance and facilitating an engineering, problem-solving group project.
- Hosted and assisted with 10 Lunch and Learn Presentations focusing on special topics chosen by program faculty and other peer leaders, modeling different aspects of engineering leadership.
- Graded 200+ assignments while providing insightful feedback and discussed results with students to help them further understand the deliverable.