

Omar Abuasba

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<https://oabuasba.github.io/personal-website/>

<https://github.com/oabuasba>

SKILLS

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

Frameworks: Cheerio | Puppeteer | Bootstrap | Node.js | JQuery | Arduino | NumPy | Pandas | Matplotlib

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

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

EDUCATION

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

GPA: 4.0 | May 2026

Barrett, the Honors College & Next Generation Service Corps, Public Service Academy

Bachelor of Science, Computer Science

Certificate, Cross-Sector Leadership

Relevant Coursework: Software Engineering, Information Assurance, Entrepreneurship & Value Creation

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)

PROFESSIONAL EXPERIENCE

Research Fellow, ASU Urban Climate Research Center

Aug 2024 - Present

- Analyzing the results of the WRF and NP climate models using Python, Pandas, NumPy, and Matplotlib in order to find the prominent differences between the models and determine a standardized input/output model.
- Assisting with the SW-IFL Project create a Model of Models, a compilation of all prominent climate models.

Software Engineering Intern, Musubi Technologies

Jun 2024 - Aug 2024

- Coded an Arduino motor that powered a pulley system through 6 different modes allowing for constant, variable, or random direction and speed while improving efficiency by over 200% from the original prototype.
- Added Bluetooth functionality to allow users to choose the mode of the wheel, a 32-character LCD with information about the current mode, and a button with a default mode.

Project Management Intern, Sun West Custom Homes

May 2023 - Aug 2023 | July 2024 - Aug 2024

- 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.
- Assisted project managers by providing insight into the status of the overall hotel and progress of specific rooms.
- Shadowed the development of a server room responsible for 50+ computers and telephones at a Hilton Hotel.
- Created 4 detail CADD Designs for the Design Team to assist with the development of a 45,000 sqft mansion.

PROJECTS

Autonomous Drone, Documentation Lead and Software Engineer @ Paragon Autonomous

Aug 2024 - Present

- Working with the software engineering team to advance the code (Python) of an autonomous drone responsible for mapping forest fires and independently providing medical supplies to those affected.
- Contributing to the front-end development of the product's website using HTML, CSS, and Bootstrap
- Established documentation standards and managed version control of code using Git.

Depop API Web Scraper (Javascript)

May 2024 - Jun 2024

- Implemented a custom web scraper using Javascript, Node.js, Puppeteer, and Cheerio to retrieve a Depop seller's information, current products, and the 25 most recent reviews.
- Managed version control using Github and tested functionality with a local host on SoapUI.

LEADERSHIP EXPERIENCE

Peer Leader, Fulton Accelerated Community Engagement (FACE)

Aug 2023 - Present

- Led 12 students through the program, providing guidance and facilitating a 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.