Mohamed Asmali

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EDUCATION

The Ohio State University | Columbus, OH   *August 2021 – Present (Expected: May 2024)*
   Current GPA: **3.7/4.0**
- *Major:* Computer Science and Engineering
- *Minor:* Business
- *Honors:* Buckeye's First Scholars (2021-Present), Dean's List (2021-Present), Second-year Transformational Experience Program (STEP) (2022-Present)
- **Relevant Coursework**: Software Components, Software Development and Design, Discrete Structures, Data Structures and Algorithms, Fundamentals of Engineering I & II, Ethics for Engineering, Object-Oriented Programming, Low-Level Programming and Computer Organization, Digital Logic, HarvardX CS50P

SKILLS

- **Programming**: C, Java, Python, HTML, CSS, JavaScript, C++, MATLAB, R
- **Technical**: Linux, Unix, Arduino, SolidWorks, Microsoft Office, Unity Hub, GitHub, Eclipse, Visual Studio
- **Language**: Native in English and Arabic

PROJECTS

Tag Cloud Generator   *Java, HTML, CSS | Dec 2022*
- Constructed a series of methods that took in a text file as input, and which mapped the word and its occurrence
- Sorted the map first numerically in descending order, then outputted the words alphabetically in HTML
- Hashed the outputted words into 37 different buckets that gave a font size which corresponded to the occurrences of the word

Ohio State's HackOH/IO– *Pulse Width Modulation*   *C, HTML, CSS | Oct 2022*
- Constructed a microcontroller that flips power into a motor attached to a fan
- Sensors were set up to monitor how much pressure fan was outputting; sensor information would be used to change pulse of motor while it was running to alter power output
- IDE Program used to smartly regulate the motor's power draw for peak performance and constant thrust.

Natural Number Calculator   *Java, MVC | Sep 2022*
- Software allows users to enter and do arithmetic with positive integer values using OSU's Java component library
- Program operations include addition, subtraction, division, multiplication, root, power, clear, and enter

RSS News Aggregator   *Java, HTML | Apr 2022*
- Generates an HTML page with links to pages for the individual RSS feeds
- Reads the input XML file into an XMLTree object and then processes the list of RSS feeds from the XMLTree

PROFESSIONAL DEVELOPMENT

INROADS – *Program Participant* | New York, NY   *September 2022 – Present*
- Completing training geared toward institutionalizing knowledge and honing technical skills that are industry-specific
- Obtaining coaching and online training to achieve specific interview, career development, and goals

PROFESSIONAL EXPERIENCE

Friendship Village of Dublin – *Dining Room Server* | Dublin, OH   *November 2018 – Present*
- Diligently taking care of the elderly residents; responsible for catering to the dietary needs of 100+ elderly residents
- Worked to record meal plans and deliver food to residents, along with processing payments
- Cleaned, organized, and sanitized dining room and tableware

The Ohio State University – *Engineering Lab Assistant* | Columbus, OH   *May 2022–Present*
- Clean and maintain lab equipment; design, repair, and test laboratory equipment
- Tasked with constructing and arranging designs and projects for engineering classes

LEADERSHIP EXPERIENCE

Sudanese Youth Leadership Association– *Events Coordinator*   *November 2017 – Present*
- Coordinated social events for the Sudanese diaspora in Columbus; raised money for Mygoma Orphanage in Sudan
- Assisted the network between Sudanese community leaders across the city

North and South Sudanese Association- *Outreach Chair*   *May 2022 – Present*
- Organize events and activities to promote that organization and its mission; speaker and performance for events
- Tasked with reaching out to 50+ Sudanese students on campus, Sudanese in the community, and other student organizations

ACTIVITIES/MISCELLANEOUS

- Recreational Soccer League: Sudanese Soccer Weekly Scrimmages   *September 2017 – Present*
- National Society of Black Engineers (NSBE): *General Member*   *August 2021-Present*
- ColorStack: *General Member*   *September 2022-Present*
- Seizing Every Opportunity (SEO): *EDGE Member*   *August 2022-Present*
- Interests: Tutoring, TED Talks, Fitness, Coding, Volunteering