

FATEMA NASSAR

Abu Dhabi, United Arab Emirates

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Education

New York University *Bachelor Degree in Computer Science and Interactive Media Abu Dhabi, UAE* Sep 2020 – May 2024(ex)

Relevant Coursework

Computer Science

- Data Structures
- Algorithms
- Comp Sys. Org.
- Computer Networks
- Software Engineering
- Computer Security
- Operating Systems
- Comp. Social Science

Interactive Media(IM)

- Intro to IM
- Connections Lab
- Rapid Prototyping

Experience

Interactive Media Lab | *Student Lab Assistant — Abu Dhabi, UAE*

Jan 2022 – Present

- Organized and took care of the Interactive Media(IM) lab and lab equipment.
- Helped students in the lab with IM courses and other needs around the lab.

Interactive Media, Prof. Shiloh | *Student Research Assistant — Abu Dhabi, UAE*

Sept 2023 – Present

- Working on programming Raspberry Pi that will be used to control a Robot.

Middle East Oil Refinery(MIDOR) | *IT Dep. Training — Cairo, Egypt*

July 2022 – Aug 2022

- Learned and applied Basic Active Directory Operation and Internet Security Methods.

RDI | *NLP Internship Cairo, Egypt*

June 2023 – July 2023

- Used Existing NER Data to recreate an NLP Machine Learning Model for Arabic Language
- Used PyTorch and Sklearn Libraries

Interactive Media, Prof. Sherwood | *Student Research Assistant — Abu Dhabi, UAE*

Jan 2022 – Jun 2022

- Wooden Mandala, Assisted Professor in finishing an Art Installation made using motors and micro-controllers to track user hand position creatively.
- Micro pollen, Assisted in adding sound, soldering, and assembling the project aaron-sherwood.com/works/micropollen

Projects

Questionnaire | *Reactjs, Bootstrap, nedb*

Summer 2022

- Made a React Web page for an Interior Design Company questionnaire.
- Learned React.js while working on this project. React was helpful with converting the json file i gave the company Owner to fill to the questionnaire form while keeping the json easily editable by the Company owner
- Used neDB to keep the list of form results in a different WebPage for the owner to view and edit easily.

Cookbook | *Python, Flask, MongoDB, Digital Ocean*

January 2021

- A Shared containerized cookbook, deployed on Digital Ocean with my team.
- the webapp had saved user data, add, edit, save and delete recipe features.
- I worked on general html/CSS, deployment, and the back and front ends of a few of the routes available.

Python conversion Library | *Python, PiPy*

Fall 2022

- Created a python package with full automated testing with a team. The package included different conversions, like date/time, age, time, and distance.
- Each teammate worked on one function including the testing for the function

City Discovery | *JavaScript*

Spring 2022

- The website uses leaflet.js to show a clickable map, where user can choose a city to view some statistics about the city closest to where the user clicked.

City Discovery | *Python, Processing*

Fall 2021

- The user playing the game has to use the mouse cursor to move the fish, nemo, and eat all the other fish smaller than him while avoiding bigger fish. *Inspiration: Feeding Frenzy*

Technical Skills

Languages *Experienced:* C, C++, JavaScript, Python *Intermediate:* Java, Assembly, Reactjs

Libraries/Frameworks: Node.js, Socket.io, Express, Flask, OpenCV, PyMongo, OpenFrameWorks, Processing/P5.js, neDB

Developer Tools: VS Code, WireShark, MS Active Directory, Linux, Git/GitHub, WordPress

Other: Illustrator, Photoshop, Fusion 360

Leadership / Extracurricular

Volunteering Experience *Cairo, Egypt Mersal Foundation*

Oct 2019 - July 2020

- Event Organization and charitable events (including trips to areas that need help)
- Social Media Management (During COVID Times).
- Leading Bazaar Sales (collecting money for charity events).