

Sarah Al-Towaity

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EDUCATION

New York University

May 2024

- Major: Computer Science; Minors: Applied Mathematics & Interactive Media

TECHNICAL PROJECTS

Bookshare

December 2022

- A used book exchange platform, deployed using DigitalOcean with a MongoDB database hosted on MongoDB Atlas, where participants can trade books with each other.

Handscribe

December 2022

- An online tool that uses the handprint package to extract text from pdf, png, jpg, and jpeg images using Microsoft Azure's machine learning Handwritten Text Recognition tool.

Pyfarmsay

November 2022

- A python package, uploaded to the Python Package Index (PyPI) repository, that prints customized messages on the terminal.

Parking Finder

November 2022

- An iOS app that finds parking spots for users, built with the help of the MapKit API, with an internal database maintained using Parse.

Study Spot Finder

October 2022

- A mobile web application built using Flask and MongoDB, where NYU students can view, add/recommend, or review a study spot on campus.

GSSH

December 2022

- A working command line shell equipped with multithreading and task scheduling functionalities.

The Long Night

December 2020

- An interactive, 2D shooter game using Python mode in the Processing Integrated Development Environment.

EXPERIENCE

New York University Abu Dhabi, Abu Dhabi, UAE (remote)

March 2022 - Present

Research Assistant

- Assist Professor Djellel Difallah in creating a taxonomy of qualitative codes to classify sockpuppet investigations (SPIs) on Wikipedia

New York University Abu Dhabi, Abu Dhabi, UAE (remote)

June 2022 - August 2022

Research Assistant, MoMA lab - Modern Microprocessors Architecture Lab

- Evaluate the gate-counting tool developed within the lab's fully homomorphic encryption framework, E3, to assess the hardware performance of algorithms written in C++ using scikit-learn, NumPy, and Matplotlib.

New York University Abu Dhabi, Abu Dhabi, UAE (remote)

September 2021 - December 2021

Research Assistant, the CoronaNet Project

- Code COVID-19-related regional policies implemented in Newfoundland and Labrador, Canada, and national policies implemented in Saudi Arabia into the project's database.
- Validate and clean existing policies by providing policy end dates or introducing changes.

Masdar Clean Energy, Abu Dhabi, UAE

January 2021 - December 2021

Future Sustainability Leaders Programme Participant

- Training and building a support vector machine learning model that detects plant disease using TensorFlow.

TECHNICAL SKILLS

Languages: Python, C++, R, HTML, CSS, Javascript, Swift **Developer Tools:** Git, Docker, Linux

Frameworks: Flask, Matplotlib, MongoDB, TensorFlow, Parse **Software:** Microsoft Office, G Suite, Adobe Suite

LEADERSHIP & COMMUNITY INVOLVEMENT

weSTEM (Womxn in STEM) at NYUAD, Abu Dhabi, UAE

Present

Co-President

- Manage the executive board and spearhead partnerships with organizations on campus and across NYU.

PROFESSIONAL DEVELOPMENT

CodePath iOS Development

November 2022

Bloomberg Market Concepts (BMC) CERTIFICATE ID: 159300743052

January 2021

LANGUAGES

Arabic, Native Fluency; English, Fluent.