

Omar Ragab

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EDUCATION

University of Central Florida
Bachelor of Science, Biomedical Sciences

Orlando, FL
June 2015 - August 2020

EXPERIENCE

Undergraduate Research Assistant (July 2019 -April 2020)

- Worked on the “Association between the adherence to the WCRF/AICR cancer prevention guidelines and cancer antigen levels among U.S. women with cancer
- Presented at the Florida Undergraduate Research Conference (FURC) February 2020

PROJECTS

Social Media App (React, Node.js, MongoDB, GraphQL, Socket.io, Docker)

- Utilizing **Node**, **Express** and **Mongoose** to build a REST API server.
- Using **GraphQL** to query and mutate data, users can create, delete and update posts
- Users have the ability to edit their personal information, add and remove friends and update their profile pictures that are stored on **IPFS** and
- Through **Socket.io**, users can send messages to friends in real-time and see who is actively online.
- Passport, an authentication middleware for **Node** is implemented to authorize users using JSON Web Tokens, user credentials are securely stored in **MongoDB**

NFT Marketplace (Next.js, Solidity, TypeScript, IPFS, Hardhat)

- Users can mint new NFTs and sell their created NFTs on the marketplace
- A creator dashboard allows users to view the NFTs they created along with the NFTs that they have sold

Decentralized YouTube (Next.js, Solidity, TypeScript, IPFS, Hardhat)

- Users can upload videos using **IPFS** and store the IPFS hashes on the smart contract
- Videos that exceed Infura’s IPFS size limit are split into smaller blobs of data, and then reconstructed upon retrieval
- Users can like and or comment on videos along with the ability to send a tip to the creator of the video on each transaction

PROFESSIONAL CERTIFICATIONS

AWS DevOps Engineer Professional
AWS Solutions Architect Professional

IBM Data Science
AWS Cloud Practitioner

SKILLS

Technologies/Languages:

- | | | |
|------------------------------|----------------------------|--------------------|
| • Amazon Web Services | Python | JavaScript |
| • Solidity | React | Node.js |
| • TypeScript | Redux | IPFS |
| • MongoDB | PostgreSQL | Docker |
| • Socket.io | GraphQL | TensorFlow |
| • Hardhat/Ethers.js | Pandas | NumPy |
| • Linux | HTML & CSS/Sass | Git, GitHub |