



TONIA HAIKAL

Computer Engineer

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BIO

As a future Texas A&M University graduate in Computer Engineering, I am seeking an internship to utilize my professional and educational experiences into one discipline. I enjoy a team-oriented environment and my interests range from low level programming languages to high level algorithms.

LANGUAGES

- English
- Arabic
- French

SKILLS

- C++
- Java
- Scheme
- JavaFX
- Python
- HTML & CSS
- Teamwork
- Creativity
- Agile

CERTIFICATIONS

- General Leadership Certificate (Cuyahoga Community College)
- Ethereum Blockchain Development (Non Fungible Tokens, NFTs)
- CPR/AED, First Aid & First Responder
- Emergency Medical Technicians



EDUCATION

Texas A&M University

2021 - 2024

GPA: 3.2

Bachelors of Science

Computer Engineering

Minor

Mathematics

Austin Community College

2019 - 2021

GPA: 4.0

Associates of Science

Applications in Science and

General Studies



WORK EXPERIENCE

Web3 NFT Studios

2021 - 2022

Web3 Developer, Community Manager & Discord Admin

- Developed Web3 smart contracts using both JavaScript and Solidity to create an optimized ERC721 contract, for optimizer transaction fees and mint experiences.
- Designed an NFT market place game (powered by Unity) using C# that communicates directly with the Ethereum blockchain utilizing token-gated assets.
- Implemented debugging NFT artwork in a generator using JavaScript, to create random NFT images.
- Researched new blockchain technologies surrounding cryptocurrency and other forms of digital tokens.

Projects

2019 - 2022

Coding, Algorithms & More

- Implemented sorting algorithms such as bubble sort, insertion sort and selection sort using iterators and by using recursive methods. Implemented a sort::insertion with traversing and accessing elements.
- Implemented a binary search tree and printing it in a level-by-level format by building a constructor, copy constructor, move constructor, destructor, and all different type of operators. Applied supporting functions like size, constant reference, max, min, root in addition to insertion, erase, find and clone functions to the BST.
- Design and developed a point of sale and inventory solution for Smoothie king using SQL to construct the connection between local application and data housed in the cloud. Included database management system and a corresponding graphic user interface using JavaFX, while applying the waterfall development methodology.
- Designed a personal website using CSS, HTML and JavaScript to integrate different languages, toggle between themes, change layouts and create unique UI appearances. Further managed to network config a server to host and display the media content.
- Implemented with C++ a calculator that takes strings and never returns an error for unbounded integers.
- Developed a 2D dynamic array dungeon crawler to maneuver from file to file. Built multiple models and diagrams as well as updated different functions using C++ such as resizing and updating different map layouts, and testing magic amulets.