Nathaniel Betancourt

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SKILLS

Technical Skills (C++, Node.JS, MongoDB, AWS, HTML, CSS, Javascript, Git/GitHub, SQL),
Art Technology (Adobe Lightroom, Sony Vegas Pro, Adobe Photoshop)

EDUCATION

Western Governors University, BS in Software Development   Expected Grad. Date: Jan 2022

PROJECTS

Audify
A music streaming service that I created that allows you to create your own account, browse music, and make your own playlists!
- MySQL/PHP for Database Usage (User Registration, Playlist Creation, Music Uploads, etc)
- Ajax utilized to allow the ability to hear audio through the use of the music player/bar
- JavaScript/JQuery used for music bar and navigation

NES Emulator WIP, C++
An NES Emulator I wrote from scratch in C++. This would allow me to play NES games without the need for the actual physical console in my possession.
- 6502 CPU Emulation written to allow emulator to function
- Mappers and ROM support added to allow games to be ripped from cartridge and become playable without the use of an external console
- PPU used to allow rendering of foreground and background

FreyBot, Node.JS, DiscordAPI, MongoDB
A bot that I wrote using Node.JS while utilizing DiscordAPI. This bot would allow anyone within the server to have the ability to have their inputs automated and made it easier for most actions to be executed (music playing, kick/ban, etc)
- Uses Node.JS for the use of commands and automation of inputs
- Utilizes MongoDB to allow users to 'trade' with a mock currency and exchange system

JS Blockchain, Javascript
I wrote a blockchain using Javascript for this project to learn how blockchain and cryptocurrency works on a fundamental level.
- Learned security basics of blockchain by using functions that validate integrity of blocks and their hashcodes
- Has the ability to create new blocks with hash validation as well

WORK HISTORY

Starbucks, Barista	Oct 2020 – May 2021
RaceTrac Petroleum, Customer Service Advisor	Jun 2020 – Oct 2020
Florida Department of Corrections, Correctional Officer	May 2019 – Oct 2019
Pompano Ford Lincoln, BDC Agent	Mar 2018 – May 2019