Thomas Nyuma

» Who am I?

An energetic and passionate STEM student seeking opportunities for Summer 2021 to be apart of teams who foster diversity & inclusion, encourage working fast in cutting-edge technology, and solving the most intricate of technical problems.

» Education

Oregon State University
Pursuing a B.S in Computer Science by Spring 2024
Relevant Coursework - Calculus I , Intro to CS , Discrete Mathematics
GPA - 4.0

Lake Nona High School
High School Diploma Class of 2020
GPA - 4.2
Relevant Coursework - AP Calculus AB, AP Computer Science Principles, AP Computer Science A

» Projects

The TikTok Bot
• Founder and Owner of an organization on GitHub that collaborate on the development and maintenance of The TikTok Bot.
• Directed the Implementation of an algorithm that raised the amount of queries capable per hour from 10,000 to over 100,000 queries per hour.
• Bot at one point handled millions of queries daily, namely recognized for being the reason a post the bot ran on currently holds the record for number of shares in a single video on TikTok.

TEKN
• A personal website developed specifically for my Computer Science related interest, projects, goals, and resume
• Personally designed the Front-End using JavaScript, HTML5, and advanced CSS styling
• Implemented a Contact Me form Backend using Excel and Google Apps Script to automatically send messages directly to myself

TEKNews
• A native iOS mobile app, that derives real-time breaking news headlines from various mainstream media publications using the NewsAPI
• Implemented using the MVC architecture, SwiftUI, SwiftyJSON, NewsAPI, and Webkit

A* Pathfinding Visualization Tool
• A polished, fully-fledged implementation of the popular A* Search Algorithm in Python, written using the Pygame library
• Features placeable nodes, barriers, and a colorful visualization that makes the tool very accessible to Data Structure and Algorithm novices.

» Activities

Oregon State University Chapter of National Society for Black Engineers - *Collegiate Member*
• Member of the renown honor society founded on a mission to increase the number of culturally responsible Black engineers who excel academically, succeed professionally, and positively impact the community.
• Our chapter goes on industry tours, invite companies to give talks on campus, as well as attend conventions/conferences throughout the school year.

Lake Nona High School Robotics - *Senior Captain*
• While not under the widely known FIRST circuit, our team was the only team in our entire district to form independently.
• Mentored and taught new members Arduino plus how to code in C++, in order to be an active contributor to club projects.
• Our team built a fitted prosthetic hand robot that was used as a demonstration for a robotics fair held on our campus.

» Contact

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» Skills

TECHNICAL SKILLS
Swift
Git
HTML5/CSS
Data Structures and Algorithms
Python
Arduino
MVVM/MVC/VIPER Architecture
Objective C
GitHub
JavaScript

FRAMEWORKS
SwiftUI
Bootstrap
Firebase
Cocoapods
Node.js
UIKit

» Awards

TopHacker LNHS -
High School AP Computer Science Instructor   2018
• Presented the annual award of TopHacker as a Junior in my school of 4,000 students.
• Award represents a student with an initiative to learn, knack for technical creativity, and ability to write clean, scaleable code.

» Volunteering

Habitat for Humanity Greater Orlando -
ReStore Voulnteer
• Served thousands of families in my area while also giving new volunteers instruction on how to do an array of task, from sorting items around the warehouse and unloading trucks, to merchandising.
• Accomplished the 1st *ever* complete refurbishment of our site, increasing attraction to many more locals, and creating a thus more widespread impact in the community.