

# MICHAEL MANDLE

ASPIRING FULL STACK ENGINEER / WEB DEVELOPER

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## INTERNSHIP GOAL

I am searching for opportunities, before and during my senior year of college, in the tech field. I want to step up my programming knowledge with actual hands-on experience to further challenge myself and gain a greater understanding of what it means to be a top-tier programmer

## SKILLS

- Java, JavaFx, JavaScript
- HTML, CSS, Swift
- React and Node.js
- C, C++, C#, ASM
- Experience with and knowledge of APIs
- Understanding and use with Databases: MongoDB and Google Firebase
- Familiarity with Python for AI intentions

## EDUCATION

### BACHELORS OF COMPUTER SCIENCE

Current GPA: 3.5, on the Dean's List

University of Georgia | Aug 2021 - May 2025

## CLUBS

ACM (Association of Computer Machinery)

UGA CodeHub

UGA/MLH Hackathons 2022, 2023, and 2024

## EXPERIENCE

### CSCI 4300 WEB PROGRAMMING

Managed social media accounts. Designing client-side and server-side techniques used on professional websites. This class challenged me to hone in on my front-end development skills in order to produce high-quality and functional websites. I enhanced my skills in HTML, CSS, JavaScript and also learned React, MongoDB, and Node.js.

### CSCI 4720 COMPUTER ARCHITECTURE AND ORGANIZATION

Design and analysis of the structure and function of modern computing systems. I have learned hardware design and the organization of CPU, I/O and memory systems, and assembly language design.

### CSCI 2720 DATA STRUCTURES

In depth learning/programming of basic software data structures algorithms: Arrays, Singly-Linked Lists, Doubly-Linked Lists, Stacks, Queues, Binary Trees, AVL Trees, Red Black Trees, Graphs, and Hashing. As well as sorting algorithms: HeapSort, QuickSort, MergeSort, BubbleSort, InsertionSort, and SelectionSort.

### CSCI 2670 THEORY OF COMPUTING

Logic with the Chomsky hierarchy was closely examined in this course. Learning Turing Machines, Automata, Pumping Lemma, Language, Computability, Timing Analysis, summation, and probability.

### CSCI 1302 INTRO TO SOFTWARE DEV

Focused on software development techniques in an object-oriented computer language: Java and JavaFX. Learned system methods, top-down design, program testing, modularity, and structuring techniques.

OTHER RELEVANT COURSES: DISCRETE MATH, COMPUTATIONAL SCIENCE, SYSTEMS PROGRAMMING, AND INTRO TO COMPUTING

## PROJECTS

### OMNIFIT FITNESS WEB BASED APPLICATION

This project is my take on creating a fitness website. I combined several features on this project including a max strength calculator, fitness standards, weight conversions, and recommended workouts. This project truly challenged me to further deepen my understanding and better my skills of web development.

### WEATHER APP WITH LOCATIONAL DATA API

A simple application that lets the user to enter a location and it pulls data from a weather API to display current weather data. This website also uses JavaScript and CSS styling to further enhance the user's experience.

### LOGIN PAGE WITH FIREBASE DATABASE

Another simple project that I used to get more experience with databases. I decided to use Google Firebase due to its versatility and information that it provides.

OTHER PROJECTS: UNIX KERNEL, GENERIC DOUBLY LINKED LISTS, GENERIC BINARY SEARCH TREES, RECURSIVE SORTING ALGORITHMS, APPLE MUSIC INTERFACE.