

Michelle McGowan

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EDUCATION

University of Nevada, Las Vegas

Bachelor of Science in Computer Science, Minor in Mathematics

Expected May 2024

- **GPA:** 3.7
- AAAS/National Science Foundation S-STEM Scholar, Dean's Honor List (2020-2023)

PROJECT EXPERIENCE

UNLV Forestry Inventory and Analysis

Section 508 Student Programmer

January 2023 - Present

- Remediate any violations of Section 508 and WCAG accessibility standards and on USDA Forest Service sites such as DATIM, UMaestro and EVALIDator
- Address any noncompliances using JavaScript, HTML, CSS, Angular, and TypeScript
- Contribute to backend functionality and database maintenance using C# and SQL
- Perform quality assurance testing

NSF REU Program - Quorum Programming Language

Undergraduate Researcher

January 2023 - Present

- Created documentation on statistical tests and published it to the official Quorum website
- Design compatibility for IOS Accessibility and Quorum/Quorum Studio
- Build reporting for statistical tests that includes accessible easy to understand results and charts

.NET Blazor Server Web Application - Mission Support and Test Services Intern Project

Nevada National Security Site Application Development Intern

May 2022 - August 2022

- Produced backend and frontend code using C#, HTML, CSS, and the Blazorise Library for users to submit ideas and documents to management
- Created an SQL database to store data submitted from application
- Developed a scheduler to send notifications to users and management to review submissions

Mario Kart in C++ - Data Structures and Algorithms Course Project

- Produced code to simulate the game of Mario Kart through priority queues and hashmaps
- Utilized minimum heap to track racers in the lead
- Implemented depth first search and backtracking for racers

Audio File Reversal in C++ - Object Oriented Programming Course Project

- Produced code for reversing audio file to play encrypted message
- Designed program using linked list stack and queue classes
- Handled varying sample rates and time references to reverse sound

PERSONAL PROJECTS

Hex Color Guesser

- Built in React and TypeScript
- Presented with a color and three hex code options
- Goal is to guess the correct hex code option

Spotify API Recommendation App

- Uses first ten saved tracks to recommend songs based on a certain genre
- Utilizes Spotify API to show username, profile picture, track titles and previews
- Developed using JavaScript, Pug and CSS

SKILLS AND RELEVANT COURSEWORK

Languages: Java, C++, C#, Assembly x86, MIPS, JavaScript, Python, Angular, React Native

Relevant Coursework: Data Structures & Algorithms (CS 302), Operating Systems (CS 370), Computer Organization (CS 219), Programming Languages (CS 326), Discrete Mathematics I & II, Machine Learning (CS 422), Automata (CS 456), Information Assurance (CS 443), Compilers (CS 460)