

# Michelle McGowan

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## EDUCATION

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### 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

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### 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 accessibility support and easy to understand results

### .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

## PROJECTS

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### 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

### 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

### Website Quality Analyzer - IRES Program in Big Data in Energy & Related Infrastructure

- Used Python Flask to create an application to evaluate the quality of airline websites
- Calculated based on certain parameters such as security, ease of use, and traffic
- Joint research paper with Texas A&M, NCAT, and Universiti Teknologi PETRONAS

## SKILLS AND RELEVANT COURSEWORK

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**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)