

Michelle McGowan

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EDUCATION

University of Nevada, Las Vegas

Bachelor of Science in Computer Science, Minor in Mathematics

- **GPA:** 3.7
- AAAS/National Science Foundation S-STEM Scholar, Dean's Honor List (2020-2024)

SKILLS

Java, C++, C#, Assembly x86, MIPS, JavaScript, Python, Angular, React Native, TypeScript, Node.js, HTML

EXPERIENCE

Full Stack Software Engineer Intern

UNLV Forestry Inventory and Analysis

January 2023 - May 2024

- Streamlined logic to enhance report generation and analyzing Forest Service resource inventory and data
- Contribute to database maintenance using C# and SQL
- Improved performance issues by addressing software bugs and adding new features to increase efficiency by 10%
- Enhanced application's UX to improve user satisfaction and boosted capability using Javascript, Angular and TypeScript

Undergraduate Researcher

NSF REU Program - Quorum Programming Language

January 2023 - May 2024

- Created documentation on statistical tests and published it to the official Quorum website
- Designed compatibility for Voiceover IOS Accessibility and Quorum/Quorum Studio
- Researched reporting for statistical tests that includes accessibility support and easy to understand results to reduce anxiety

Full Stack .NET Application Development Intern

Nevada National Security Site/Mission Support and Test Services

May 2022 - August 2022

- Built a web application that was pushed to production 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
- Decreased management neglect by 25% through the idea submission application

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
- Implemented Spotify API to show username, profile picture, track titles and previews

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 and 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

MUNCH: Phone Eats First - Software Engineering Senior Design Project

- Worked on an 11 member team to build an IOS and Android mobile application from scratch
- Used React Native for frontend, Python for backend, and Firebase as database to connect users with cultural food and family owned restaurants near by utilizing the Yelp API
- Created user interface and API calls for a streamlined connection and setting the standard for clean code