Willie **Alcaraz**

Las Vegas, Nevada

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PROFESSIONAL SUMMARY

Aspiring software engineer currently pursuing a Computer Science degree at UNLV, with a strong interest in securing an internship in software engineering, particularly in full-stack development. As a TA for CS courses, I am deepening my technical expertise while assisting students in mastering concepts. I am also a lead in the Drumbots of Las Vegas, demonstrating leadership and teamwork skills with a world-renowned percussion act. I aim to join a collaborative team where I can enhance my skills and contribute to impactful, real-world projects.

EDUCATION

University of Nevada Las Vegas | GPA 3.3 – *B.S. Computer Science, Expected Graduation December 2024*

College of Southern Nevada, Las Vegas | GPA 3.2 – *A.S. Engineering, 2020*

TECHNICAL SKILLS

- **Programming Languages:** C/C++, Java, JavaScript, Swift, Python, Quorum
- **Web Development:** HTML5, CSS3, Bootstrap
- **Technologies:** Linux, Ubuntu, Visual Studio, Docker, MS Office, GitHub

EXPERIENCE

CS Teacher Assistant – *College of Southern Nevada*

Fall 2022 - Present
- Mentored students in object-oriented-programming
- Debugged source code with a focus on syntax, semantics, and algorithms
- Provided constructive grading feedback
- Created and modified unit tests to evaluate code accuracy

Drumbots LED Percussion – *Drum as One LLC., Las Vegas*

March 2017 - Present
- Lead role coordinating technical setups and performances ensuring seamless integration
- Adapting to client-specific requests, delivering tailored technical solutions
- Collaborative work amongst other percussionists and talent groups
- Problem-solving in dynamic environments
- Award-winning performances for the NHL Vegas Golden Knights, NBA, NFL, and internationally

PROJECTS

Personal Website | https://williealcaraz.dev
- HTML5, CSS3, JavaScript
- Smooth scrolling, parallax, dynamic visuals to enhance user experience
- Responsive/interactive elements

LED Control Module
- Software design and development
- Engineered a tailored, reliable, and scalable LED control system
- Innovative solutions to optimize functionality

EEG Classification | Machine Learning Project
- Developed a convolutional neural network model to detect seizures
- TensorFlow and PyTorch for training
- Analyzing raw datasets using signal filtering, augmentation, and other techniques

F1tenth Autonomous Racing
- ROS2 and Docker development
- Engineered real-time systems and algorithms for autonomous navigation
- Collaborative development