

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
- **Web Development:** HTML5, CSS3, Bootstrap
- **Development tools:** Git, Docker, Visual Studio, VirtualBox
- **Technologies:** Linux, Ubuntu, MS Office, GitHub
- **Version Control:** Git, GitHub
- **Databases:** MySQL
- **Cloud Technologies:** AWS
- **Operating Systems:** Linux (Ubuntu), Windows, macOS, Kernel

PROJECTS

Personal Website | <https://williealcaraz.dev>

- HTML5, CSS3, JavaScript
- Responsive/interactive elements
- Smooth scrolling, parallax, dynamic visuals to enhance user experience

Machine Learning Seizure Detection

- TensorFlow, PyTorch
- Convolutional neural network models
- Analyzing raw EEG data via signal filtering, augmentation, and other techniques

LED Control Module

- Engineering and testing tailored, scalable, reliable solutions for real-world clients
- Software design and development
- Innovative solutions to optimize functionality

F1tenth Autonomous Racing

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

PROFESSIONAL EXPERIENCE

CS Teacher Assistant – *College of Southern Nevada* | Fall 2022 - Present

- Mentor students in object-oriented-programming
- Debugging source code with a focus on syntax, semantics, and algorithms
- Providing constructive grading feedback
- Developed and modify unit testing scripts 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
- Engineered client-specific requests, delivering tailored technical solutions
- Collaboration amongst diverse talent groups and *international* clientele
- Leveraged problem-solving skills in dynamic environments
- Showcased expertise with collaborations including the Vegas Golden Knights, NBA, and NFL