

Alexis Villarreal

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Technical Skills

Languages – C++, Java, Python, C, MariaDB, Bash Scripting, MATLAB, R

Technologies - Visual Studio Code, Windows Subsystem for Linux, VirtualBox

Professional Experience

UNLV College of Engineering – *Teaching Assistant* 2020-Present

- Oversaw and graded assignments for 30 students every week.
- Helped students with their programming assignments during office hours.
- TA for CS 218 (Assembly Language and Systems Programming)
- Covered MIPS and x86-64 assembly languages

UNLV College of Engineering – *Senior Team Lead* 2019-Present

- Team Lead in the Introduction to Engineering Experience Class (EGG 101)
- Work with course instructors assisting in course planning.
- Lead in breakout rooms, responsible with familiarity of activities and room setup.
- Liaison between mentors with respective faculty, providing feedback and support.
- Mentored even through the pandemic remotely via Discord voice calls.

UNLV Disability Resource Center – *Alternative Media Specialist* 2017-2020

- Assisted with the creation of content and textbooks accessible for students in a variety of formats.
- Worked efficiently with a maximum of 6 co-workers to expedite and organize tasks to complete.
- Constantly communicating with publishers and other companies via email.
- Quality checked accessible media to be sent out to students.
- Stored, retrieved and documented variety types of accessible technology for students.
- On occasion proctored and supervision of final exams of students with disabilities.

Education

Bachelor of Science, Computer Science 2017-2021

University of Nevada Las Vegas

Projects

- Espresso Virtual Machine and Compiler in Java – Espresso is a Java-like language that is fully functioning. Implemented the VM by creating and operand stack and execution loops. Implemented the compiler by working on scanning, parsing, type checking, and code generation functionalities for the compiler.
- Invisible Bot in Python - A collaborative Discord Bot project written in Python 2.0
- Universal Gantt Chart in C++ - Organizes the chart as a large directed acyclic graph, and finds information like critical path, slack time, and articulation points.