ALEJANDRO DIAZ PAREDES

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SUMMARY

Junior in Computer Science with a minor in mathematics. My objective is to acquire an internship in a related field or industry. My interests are in software development and team-based game development.

RELEVANT SKILLS

- SEI CERT C coding standards
- · Object Oriented Programming, AGILE
- (Familiar): Java, C++/C, Unix Bash, Python, Git, Linear Algebra, AWS
- (Frameworks): Pygame, numpy, LibGDX, OpenGL, Unity

UNIX OS Spring 2023

- Creating virtual machines with Amazon AWS using Docker
- Bash scripts for accessing directories, changing user permissions using VIM

JAVA & C/C++ DATA STRUCTURES

Spring 2023 - Present

- Data structures such as Linked Lists, binary search trees, stacks, and queues
- Efficient and modularized code that satisfies SEI CERT C security standards

MATRIX MANIPULATIONS

Spring 2023 - Present

- Library functions in Python for linear transformation of vertices in 3D spaces
- Implementing **algorithms** for intersecting rays and triangles in graphics

EDUCATION

University of Colorado Colorado Springs

May 2025

- Bachelor of Science in Computer Science, ABET accreditation
- · Minor in Mathematics

PROJECTS AND EXPERIENCE

- Pygame 3D Engine (Python)
 - Python used to understand the theory of computer graphics. This includes translating, rotating, scaling, and projecting vertices in a 3D space.
- Vending Machine Mayhem (Java)
 - Snack options stored in a 2D array, and the user would enter a *valid* option to receive their snack.
- Donations & Organizations (C)
 - Using structures and linked lists, user can file receipts for donations made to charitable organizations.
- Matrix Operations Library (C)
 - Functions to read matrices and vectors from a file, implements most aspects of linear algebra.

WORK EXPERIENCE

· Information Technology Intern

October 2023 - Present

 Audio/Visual device task management, re-imaging devices by accessing the UEFI BIOS, customer support