Robert Pearce

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EDUCATION

UNIVERSITY OF NEVADA LAS VEGAS | Las Vegas, NV **June 2026**
Bachelor of Science Computer Science **GPA:** 3.7

COLLEGE OF SOUTHERN NEVADA **June 2022**
Associate of Business **GPA:** 3.8

RELEVANT COURSEWORK

Data Structures & Algorithms (C++): This course introduces sequential and linked structures, file access methods, internal structures (stacks, queues, trees, graphs), algorithms for manipulation, and Big-O notation.
Discrete Mathematics: Topics include set operations, Cartesian products, relations and functions, equivalence relations, graphs and digraphs, propositional calculus, truth tables, mathematical induction, and elementary combinatorics applied to probability.
Calculus II: Further applications and techniques of integration including integration by parts, sequences and series, polynomial approximations.

PROJECT EXPERIENCE

Integral Approximation Visualization **Mar 2023**
C++ / Calculus II
- Program to demonstrate the differences between Riemann Sum integral approximation methods, left endpoint, midpoint, right endpoint, and trapezoidal approximation.

8 Queen Chess Puzzle **Apr 2023**
C++ / Recursion / Backtracking Algorithm
- Program that implements a recursive backtracking algorithm to place 7 additional queens on a chess board in a way where no 2 queens threaten each other. Code available upon request.

TECHNICAL SKILLS

Languages: Proficient: C++ | Python | Assembly
Familiar: HTML | CSS | JavaScript
Operating Systems: Linux | Windows | MacOS
Tools: Visual Studio Code | Anaconda | PyCharm | DDD

RELEVANT WORK EXPERIENCE

UNLV Vegas STEM Mentor **Las Vegas, NV**
University of Nevada Las Vegas *May 2024 – June 2024*
- Mentor for UNLV Vegas STEM Lab, overseeing a group of 5 middle school students.
- Provided personalized guidance and support to facilitate the development of STEM identity among mentees.

Supplemental Instruction Math Leader **Las Vegas, NV**
College of Southern Nevada *Aug 2023 - Present*
- Plan and conduct 3-4 study sessions per week throughout the term, using strategies learned in SI Leader Training to prepare and provide aid to 80+ students a semester.
- Made supplementary videos covering notoriously difficult concepts such as difference quotient, asymptotes, and related rates.

Las Vegas Mini Gran Prix **Las Vegas, NV**
Mechanic *Mar 2020 – Aug 2023*

CERTIFICATES

IBM Data Structures & Algorithms Using C++	Harvard CS50 Python	Harvard CS50 AI	CISCO NDG Linux Unhatched