

# Summer Bernotas

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## EDUCATION

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**Southern New Hampshire University | Manchester, NH**

*B.S Computer Science with conc. Software Engineering*

- GPA: 3.7; Honor roll: 2021, 2022

## TECHNICAL SKILLS

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**Languages:** Python, C, C++, HTML, CSS, JavaScript, MySQL

**Technologies:** OpenGL, SFML, Git, Visual Studio, VS Code, Node.js

## PROJECTS

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**Orbit Simulator** | C++, SFML

- Built web application using C++ alongside the SFML library to generate a fully-animated simulator of our solar systems orbit paths around the sun
- Researched and studied branches of physics and astrophysics in order to accurately represent real-time calculations of how planets orbit and function in our solar system
- Utilized SFML graphic functions to create visuals of the entirety of the program

**Single-Player Chance Games Program** | Python

- Built Python program utilizing functions to validate player's choice of games, bet/score amount, and scoring test cases
- Used randomization to play against the player and calculate win/lose title depending on requirements and rules of chosen game
- Utilized built-in math functions with Python to keep track of player's status

## PERSONAL COURSES COMPLETED

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**CS50x Introduction to Computer Science** | 12 week course by Harvardx

- Learned fundamental topics in computer science
  - Practiced with C#, Python, SQL, Java, HTML/CSS

**Data Structures and Algorithms Using C++** | 8 week course by IBM

- Learned to implement data structures using algorithmic techniques in C++

**Introduction to Astrophysics** | 7 week course by EPFL

- Learned theoretical predictions and observations related to astronomical objects