Caleb Bergen

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Objective: Hardworking and responsible rising college senior looking for experience in software engineering, coming with excellent hardware and software troubleshooting skills and proficient knowledge of software development in several different languages.

Technical Skills :

- **Languages:** Python, C++, C, Java, HTML5, CSS, MIPS Assembly
- **Development Tools:** Sublime Text, Visual Studio, IntelliJ, Emacs
- **Platforms:** Ubuntu, Elementary OS, Windows 7, Windows 10

Education:

University of Massachusetts Boston, Boston MA *September 2018 - May 2020*

- Bachelor of Science: Computer Science
- Dean's List, GPA: 3.67
- Relevant Coursework: Computer Science Gateway Seminar 1-2, Intro to Computing, Inter Computing Data Structure, Programming in C, Calculus 1-2

University of Massachusetts Lowell, Lowell MA *Expected May 2022*

- Bachelor of Science: Computer Science
- Cumulative GPA: 3.37
- Relevant Coursework: Computing 3-4, Assembly language programming, Logic Design, Discrete Structures 1-2

Project Experience:

- **Yahtzee Game**, Personal Project *October 2020 – Jan 2021*
  - Technologies used include C++ and the SFML library.
  - Created a full GUI and automatic score calculation system.
  - Designed and implemented an algorithm to analyze a set of dice in order to identify viable score categories for the user.

Related Course Project Experience:

- **DNA sequence Alignment Project,** University of Massachusetts Lowell *Spring 2021*
  - C++ program that finds the optimal alignment of a protein sequence of any size.
  - Utilizes dynamic programing through the Needleman-Wunsch algorithm.
  - Analyzed the programs memory usage and run time with protein sequences of varying lengths using Valgrind.
- **8 Tile Puzzle project,** University of Massachusetts Boston *Fall 2019*
  - Java Program that solves an 8-tile puzzle by implementing the A* search algorithm.
  - Understood how to implement an algorithm to solve a complex puzzle with many moves.
- **Facial recognition,** University of Massachusetts Boston *Spring 2019*
  - Implemented the OpenCV library to write a program that can recognize a variety of different types of faces and groups of people.
  - In-depth work with facial recognition technology.

Work Experience:

- **Head Counselor,** Stow Recreation Department *Summer 2019*
  - Planned and coordinated camp activities while guiding campers in personal growth and daily living skills.
  - Provided leadership to campers in all areas and acted as a role model.