

# Sandy Demian

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<b>Education</b>	<b>University of Central Florida, Orlando FL</b> Bachelor of Science, Computer Science	<b>December 2018 (expected)</b> GPA: 3.8/4.0
<b>Skills</b>	<ul style="list-style-type: none"><li>• <b>Programming (proficient):</b> C, Java, Swift</li><li>• <b>Programming (familiar):</b> JavaScript, HTML, CSS, Python</li><li>• <b>Operating Systems:</b> Windows, Mac OS, Linux</li></ul>	
<b>Projects</b>	<p><b>iOS GPS Game using Swift</b></p> <ul style="list-style-type: none"><li>• Location based game where players are given clues for locations inside a theme park and earn points for visiting these locations</li></ul> <p><b>Simple PL/0 Compiler using C (class project)</b></p> <ul style="list-style-type: none"><li>• Takes a program written in PL/0, compiles and runs it on a virtual machine</li><li>• The program included a parser, lexical analyzer, intermediate code generator, and a virtual machine</li></ul> <p><b>Topological Sort using Java (class project)</b></p> <ul style="list-style-type: none"><li>• Given a directed graph, the program uses backtracking to generate all valid topological sorts for that graph</li></ul> <p><b>Attacking Knights using Java (class project)</b></p> <ul style="list-style-type: none"><li>• Given a list of coordinates for knights on an arbitrarily large square chess board, the program determines whether any of them can attack one another</li></ul> <p><b>Efficient Fibonacci Calculator using C (class project)</b></p> <ul style="list-style-type: none"><li>• O(n) Fibonacci calculator that uses arrays of integers to represent numbers greater than 64-bit integers</li></ul>	
<b>Related Coursework</b>	<ul style="list-style-type: none"><li>• Computer Science I</li><li>• Computer Science II</li><li>• Intro to Discrete Structures</li><li>• Computer Logic and Organization</li><li>• Systems Software</li></ul>	<ul style="list-style-type: none"><li>• Processes for Object Oriented Software Development</li><li>• Computer Vision</li><li>• Database Systems</li><li>• Operating Systems</li></ul>
<b>Experience</b>	<b>Intro to Computer Science Teaching Assistant</b> University of Central Florida, Orlando FL	<b>January 2018 - present</b>
	<ul style="list-style-type: none"><li>• Explain Computer Science concepts to students in an intro programming class</li><li>• Help students with the weekly programming assignments in the labs</li><li>• Grade assignments and assist the professor with other class needs</li></ul>	
<b>Honors/ Activities</b>	<ul style="list-style-type: none"><li>• President's Honor Roll (4 semesters), Dean's List (1 semester)</li><li>• Member of the Society of Women Engineers (SWE)</li></ul>	