Sandy Demian

(216) 785-1700
sdemian@knights.ucf.edu

Education	**University of Central Florida, Orlando FL** Bachelor of Science, Computer Science	**December 2018 (expected)** GPA: 3.84/4.0

Related Coursework	• Computer Science I • Computer Science II • Intro to Discrete Structures • Computer Logic and Organization • Systems Software	• Processes for Object Oriented Software Development • Computer Vision • Database Systems • Operating Systems

Projects	**iOS GPS Game using Swift** • Location based game where players are given clues for locations inside a theme park and earn points for visiting these locations **Simple PL/0 Compiler using C (class project)** • Takes a program written in PL/0, compiles and runs it on a virtual machine • The program included a parser, lexical analyzer, intermediate code generator, and a virtual machine **Topological Sort using Java (class project)** • Given a directed graph, the program uses backtracking to generate all valid topological sorts for that graph **Attacking Knights using Java (class project)** • 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 **Efficient Fibonacci Calculator using C (class project)** • $O(n)$ Fibonacci calculator that uses arrays of integers to represent numbers greater than 64-bit integers

Skills	• **Programming (proficient)**: C, Java, Swift • **Programming (familiar):** JavaScript, HTML, CSS • **Operating Systems**: Windows, Mac OS, Linux

Experience	**Intro to Computer Science Teaching Assistant, Spring 2018** University of Central Florida, Orlando FL • Explain Computer Science concepts to students in an intro programming class • Help students with the weekly programming assignments in the labs • Grade assignments and exams and assist the professor with other class needs

Honors/ Activities	• President's Honor Roll (4 semesters), Dean's List (1 semester) • Member of the Society of Women Engineers (SWE)