

# Soheil Sepahyar

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## SUMMARY

PhD in Computer Science Looking for **Internship** or **Co-Op**

## EDUCATION (Current Study)

**PhD in Computer Science** at Michigan Technological University **GPA: 3.5/4** (15 credits) Houghton, Michigan

*Previous Study (from September 2014 to July 2018)*

**Bachelor of Science in Computer Software Engineering** at Azad University of Tehran **GPA: 3.7/4** Tehran, Iran

## PROJECT EXPERIENCE

### Virtual Reality Distance Judgment

**Project:** Analyzing distance judgment in VR environment with different conditions

**Project Description:** In this project we wanted to focus on distance judgment in VR environment with Oculus Head Mounted Display and we created virtual environment with C and C++ Programming with OpenGL, and we tested this program with bright and dark conditions to see if brightness and darkness of VR environment will affect distance perception of our users.

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### Comparing Sorting Algorithms Based on Time Complexity Project

**Project:** Time Complexity calculation of different algorithms with various input data sizes to find the most efficient algorithm.

**Project Description:** In this project four different sorting algorithms, Shell sort, Quick sort, Insertion sort and Selection sort were compared by their time complexity.

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### Creating Graphics Particles with OpenGL

**Project:** Analyzing particles in computer graphics for simulating a fire and fountain.

**Project description:** In this project, I have worked with OpenGL programming and Particles for simulating fire animation. I also worked with Maya software for the experimental result in simulating the real water and fire graphically and comparing and working with Autodesk Maya 2016 outputs.

## COMPUTER TECHNICAL SKILLS

C++

OpenGL

Android Programming

Virtual Reality

Python

Autodesk Maya

Latex

Proteus

Java

Atmel AVR

Unix Operating Systems

Algorithm

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## PUBLICATIONS

- 1) Effects of Brightness on Distance Judgments in Head Mounted Displays (Conference: IEEE Virtual Reality, Under Submission Process)
- 2) Comparing Four Sorting Algorithms with Different Data Sizes Based Upon the Time Complexity. (**Accepted by 2019 2nd International Conference on Algorithms, Computing and Artificial Intelligence (ACAI 2019)**)