

Jessica Hong

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Education

Cornell University / Ithaca, NY / 2016 - 2020

Bachelor of Science in Computer Science

GPA: 3.75, Dean's Honor List

University of Minnesota / Minneapolis, MN / 2009 - 2016

University of Minnesota Talented Youth Math Program

Edina High School / Edina, MN / 2013 - 2016

Experience

Mezmeriz Inc / Ithaca, NY / Summer 2017

Research Intern

- Apply point cloud segmentation and meshing algorithms using C++, Point Cloud Library, and Triangle
- Analyze point cloud data with MeshLab and CloudCompare
- Research LiDAR technology and point cloud algorithms

Program of Computer Graphics / Cornell University / Spring 2017 - Current

Research Assistant

- Use C++ and Unreal Engine 4 to create virtual reality modules and gather eye tracking data with the HTC Vive and SMI Eye-Tracker
- Research eye-tracking applications in virtual reality and foveated rendering algorithms
- Use iViewHMD C++ API and Python to collect and visualize data

SPS Commerce / Minneapolis, MN / Summer 2016

Software Engineer Intern

- Used HTML, CSS, JavaScript, and AngularJS to create a web UI
- Developed Python unit tests

Knights Lab / University of Minnesota / Fall 2016

Research Intern

- Developed a shotgun sequencing method for bacteria in the gut microbiome using Python

FIRST Robotics team 1816 / 2014-2016

Programming Instructor, Scout

- Taught new members Java and command-based programming basics
- Wrote robot code for autonomous and teleoperation modes in Java

Activities

Coderdojo Twin Cities / Python Mentor / 2016

Awards

NCWIT Aspirations in Computing / Minnesota State Runner Up / 2016