

# ROBINSON DEAN MERRILLAT

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## PROFESSIONAL EXPERIENCE

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### Research Assistant

Sep 2019 - Jun 2021

#### Colorado School of Mines

Golden, CO

- Provided research and lab assistance in human-robot communication, creating a prototype for underground assisted navigation (Alpha AR Project) and new methods for human-robot communication through AR.
- Primary Languages: C++, C#, Python

### Intro to CS Instructor

Aug 2019 - Dec 2019

#### Colorado School of Mines

Golden, CO

- Taught over 100 students introductory CS principals using 9 weeks of self-made course curriculum and Python assignments, inspiring new and experienced students to pursue a degree in CS or develop a minor in CS.
- Assisted the CS Program Director in developing effective methods of teaching introductory CS concepts to all degree fields.

### Associate iOS Developer

Jun 2018 - Jun 2019

#### Wonderman Thompson Mobile

Denver, CO

- Collaborated in a team of 10-20 to maintain enterprise iOS apps in Objective-C and Swift providing updated UI and new features

### Junior Web Developer

Jun 2017 - May 2018

#### Newmont Gold Mining

Denver, CO

- Developed a dynamic data visualization tool to replace older software. My application was lightweight, fast, and intuitive, allowing field scientists to enter and modify data efficiently and reliably while in remote locations.
- This Application was initially developed in Typescript and was migrated to Javascript (No frameworks)

## PROJECTS

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### Alpha Foundation Augmented Reality Project

Sep 2019 - Jun 2021

- Developed Unity AR application in C# and C++ connecting a Hololens 2 and a ROS network to provide navigation assistance for emergency personnel in underground environments resulting in a prototype that could provide basic visual assistance while in pitch black settings on a local network

### Limber - github.com/rdmerillat/limber

March 2018

- Minnehack 2018 (24 hour hackathon) - Mobile web VR app using 3JS and Javascript to gamify rehab for neck and spine injuries. (2nd place of 60 teams)

## EDUCATION

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### Master's in Computer Science - Colorado School of Mines

December 2021

### Bachelor's in Computer Science - Colorado School of Mines

Fall 2015 - Spring 2018

**Relevant Coursework:** Algorithms, Computer Vision, ML, Computer Graphics, HPC

## TECHNICAL STRENGTHS

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### Languages

Python, C++, Swift, Javascript, C#

### Exposure

Keras, TF, ROS, AR/VR, Kotlin, Java, Lisp, Objective-C

### Tools

Git, Unity3D, Hololens 2, Magic Leap, XCode, Blender