

# Carl Schader

(720) 413-6933 · [carlschader@mymail.mines.edu](mailto:carlschader@mymail.mines.edu)

**Colorado School of Mines, 3.926 / 4.0 GPA**

**Honors Research: Computer Science**

---

## EXPERIENCE

**Maxar/SSL Robotics**, Boulder, CO

May 2019 – Present

*Software Engineer Intern*

- Built a virtual reality simulator and visualizer for robotic arms and satellites.
- Wrote specialized linear algebra library in C# and used it to speed up computation for robotic arms.
- Built networking code between VR simulator and physical robotic arms to control them in VR.

**Factor Earth/Metcalf Archaeology**, Lakewood, CO

September 2018 – April

2019

*Software Engineer Intern*

- Built backend web server for managing mobile and web app files.
- Created front end web site for formatting client files and displaying client information.
- Helped work on a mobile app frontend for android and iOS.

## EDUCATION

**Research**

August 2018- Present

- Researching under Dr. Hao Zhang in the Human Centered Robotics Lab.
- Specialty in Machine Learning.
- Working to publish a paper on Bayesian Neural Networks.

**Colorado School of Mines**

August 2017 - May

2020

- Honor's Research Computer Science Major.
- C-MAPP scholar with East Daley Capital
- Tau Beta Pi Engineering Honors Society member.
- Current undergraduate senior taking multiple graduate level CS courses.

## ACTIVITIES AND LEADERSHIP

- ACM member at Colorado School of Mines.
- Competed in the MHacks university of Michigan hackathon.
- Competed in the Tyler Tech coding competition.
- Created my own deep learning library. (see it at <https://carlschader.github.io/>)
- Working on startup gas price tracking company.
- Co-Host on FlyTheBox tech podcast.

## References

Dr. Hao Zhang: Research Advisor ~ [h Zhang@mines.edu](mailto:h Zhang@mines.edu)

Sean Dougherty: Lead Technologist at Maxar Boulder office ~ [Sean.Dougherty@sslmda.com](mailto:Sean.Dougherty@sslmda.com)

Jiayi Liu: Head of Factor Earth startup ~ [jliu@factorearth.com](mailto:jliu@factorearth.com)

Dr. Tracy Camp: Head of Computer Science at Colorado School of Mines ~ [tcamp@mines.edu](mailto:tcamp@mines.edu)