Carl Schader

(720) 413-6933 · 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 ~ hzhang@mines.edu
Sean Dougherty: Lead Technologist at Maxar Boulder office ~ Sean.Dougherty@sslmda.com

Jiayi Liu: Head of Factor Earth startup ~ jliu@factorearth.com
Dr. Tracy Camp: Head of Computer Science at Colorado School of Mines ~ tcamp@mines.edu