Carl Schader

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SUMMARY

GPA: 3.951

Education: Computer Science - Honors Research at Colorado School of Mines, graduating May 2020.

Research: Researching at Colorado School of Mines Human Centered Robotics Lab, working on deep learning for self driving cars.

Experience: Software Developer with industry experience in deep learning, full stack web development, mobile apps, and algorithms.

Personal Website: carlschader.github.io Find some projects here.

Objective: Creative software developer seeking to utilize skills in programming, deep learning, and algorithms to collaborate in industry for companies and grow skills further.

SKILLS

- **TensorFlow**: Currently working on building probabilistic convolutional neural networks for semantic segmentation for self driving cars as a part of research at the Human Centered Robotics lab. Built API's for simplifying the creation of neural networks.
- **Mobile Apps**: Built a mobile game for iOS in swift. Worked on cross platform mobile apps using Angular and React.
- **Web Apps**: Full stack developer. Created a web app for an internship with FactorEarth to format company files over the web and serve them over a server to company computers. Built several web apps at hackathons using Node, Angular, and React.
- **Algorithms**: Informed in algorithms and used for academic projects in classes such as algorithms, artificial intelligence, and programming languages.
- **Languages**: Python, Javascript, C++, Java, Swift, C#. Can easily learn new languages.

WORK HISTORY

AUGUST 2018 - PRESENT. **FACTOREARTH**

Software Engineer Intern

- Automated the company's document workflow by scripting in Python and C#.
- Built web app allowing employees to upload files for formatting and serving those files to a company hard drive.

MAY 2018 – PRESENT **MINES HUMAN CENTERED ROBOTICS LAB**

Research Assistant

- Worked with TensorFlow and Unreal Engine to create and train convolutional neural networks for self driving cars.
- Worked with numerous open source deep learning APIs to test datasets for semantic segmentation to help create self driving cars.
- Created neural network API for building simple deep learning models for students.

EDUCATION

AUGUST 2017-MAY 2020 **COLORADO SCHOOL OF MINES**

BS COMPUTER SCIENCE - HONORS RESEARCH