RYAN CRYAR

Corvallis, OR 97330. (925) · 519 · 1703 ⋄ cryarr@oregonstate.edu

EDUCATION

Oregon State University *Anticipated: August 2020*
B.S. in Computer Science
Option in Security

SKILLS

- Expertise in GNU/UNIX, experience in kernel development.
- Expertise in C++, C, Python, BASH, and LaTeX. Experience in Java, x86 Assembly, SQL, Apex, Javascript, Node.js. Familiarity C#, GO, and Rust.
- Python modules such as Keras, Numpy, TensorFlow.
- Robot Operating System, autonomous systems.
- Agile methodologies, design processes, Jira.
- Cryptography, Usable Security, Network Security, Algorithm analysis and implementation.
- OpenGL, Paraview, data visualization, and 2D/3D graphics.

EXPERIENCE

Global Formula Racing September 2019 - Present
Simulation and Tools

- Senior Capstone project focused on simulation and development of an autonomous race car
- Developed physics engine currently in use for the simulations.
- Used Robot Operating System for development and work on the autonomous system.
- Optimized code with CUDA, fast trajectory calculations, and processed data with Machine learning.
- Worked with Lidar data processing for sensing where the car is in the track.
- Worked in conjunction with German partner campus communicating issues and meetings.

Oregon State University Graduate School June 2018 - October 2019
Full stack Developer/Analyst *Corvallis, OR*

- Development of software used by all students and all faculty of the graduate school.
- Experience working in dynamic teams and tight deadlines.
- Projects include: graduate school application, a digital program of study, and graduate application customization.
- Assisted customers troubleshoot technical problems as they arose.

Oregon State University School of EECS December 2017 - June 2018
CS 16X Teaching Assistant *Corvallis, OR*

- Held labs, and hands on programming workshops.
- Held recitations teaching for up to 40 students.
- Wrote lesson plans to assist in the education of students.
- Learned to tailor my explanations to best serve the learning style and needs of each student.

Oregon State University Dept. of Biochem and Biophysics April 2017 - December 2017
Undergraduate Researcher *Corvallis, OR*

- Conducted research in bioinformatics.
- Team lead on project focusing on hairpin detection in MicroRNAs with machine learning, specifically recurrent neural networks and bi-directional LSTMs.
- Performed statistical analysis on data outputs.
- Learned modules and languages within a short period of time to meet deadlines