

YONG LI

8808 Liberty Lane Potomac MD, 20854 · (240)-645-3703

Liyong2123@gmail.com · liyong.github.io

EXPERIENCE

2020-01– 2020-08

SOFTWARE ENGINEER INTERN, NASA GODDARD

- Developed software for atmospheric correction on Hyperspectral imagery and contributed to open source ARCSI project for new satellite sensor support (Hyperion)
- Deployed atmospheric correction software on AWS EC2 along with data conversion and noise reduction integration
- Developed simple machine learning model using Keras to predict the presence of minerals and compounds based on pixel signature with 90% accuracy.

2019-05 – 2019-11

SOFTWARE ENGINEER INTERN, MACH33 ENGINEERING

- Supported the development of Laser Heterodyne Radiometer instrument by creating OPENCV2 based verification tool to determine the validity of sensor position
- Created website to track status and view data from the instrument in real time

EDUCATION

MAY 2022 EXPECTED GRADUATION

COMPUTER SCIENCE B.S. & ECONOMICS B.A.

UNIVERSITY OF MARYLAND, COLLEGE PARK

- Coursework: Algorithms, Organization of Programming languages, Linear algebra, and Operating systems
- College Park Scholars

MAY 2018

HIGH SCHOOL DIPLOMA,

WINSTON CHURCHILL HIGH SCHOOL

SKILLS

- **Proficient:** Python, C, Java, Git, Linux, Ocaml, Ruby
- **Basic:** AWS EC2, Docker, JavaScript, HTML

SELECTED PROJECTS

- **Eco-Vent**
Developed Arduino Code for value control and data displaying on NASA eco-vent Project
- **Web-Based YOLOv3**
Converted existing machine learning model YOLOv3 based on darknet into Keras model/TensorFlow JavaScript and developed site which allowed real time webcam object detection.