YONG LI

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EXPERIENCE

2020-01– 2020-08

SOFTWARE ENGINEER INTERN, NASA GODDARD

- Pushed for and developed new atmospheric correction software for satellite imagery, improved efficiency and accuracy by 50% and contributed to ARCSI open source project
- Deployed atmospheric correction software on AWS EC2 along with automatic data conversion and reduced noise of data by 30%
- Developed 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 python OPENCV2 based verification tool to determine the validity of sensor position
- Used HTML, CSS, and PHP to developed site which allowed for real time data viewing of sensor and past data

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

SELECTED PROJECTS

- **Eco-Vent:** Designed and implemented Arduino code for data viewing and motor control for 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.
- **PennHacks 2019:** Used Capital One API to design and develop budgeting tool in Java for the android system
- **HooHacks 2019:** Designed and implemented IOS app which allowed users to save their courses and grades and add hypothetical grades in Swift.

SKILLS

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