Jia Yong Li

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EDUCATION

UNIVERSITY OF MARYLAND, COLLEGE PARK | BS Computer Science — May 2022
GPA: 3.3

| Relevant courses: Algorithms, Organization of Programming languages, Linear algebra, Operating systems

WORK EXPERIENCE

NASA GODDARD | SOFTWARE ENGINEER — Greenbelt, MD | Jan 2020 – Aug 2020

- Pushed for the development of new atmospheric correction software for satellite imagery, improves 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 reduces 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

MACH33 ENGINEERING | SOFTWARE ENGINEER — Laurel, MD | May 2019 – Nov 2019

- Used HTML, CSS, and PHP to develop site which allowed for real time data viewing of aerosol sensor data and also provided tools for scientist to view metadata data
- Supported the development of Laser Heterodyne Radiometer instrument by creating python OPENCV2 based verification tool to determine the validity of sensor position

SKILLS

Basic	AWS EC2, Docker, Javascript, HTML, PHP, Matlab, Swift, Machine Learning/Data Science
Proficient	Python, Java, Git, Github, Linux, OCaml, Ruby, AGILE, Arduino, OpenCV, C

SELECTED PROJECT

PENNAPPS 2019 | Java — Sep 2019
Led team of 4 by delegating tasks and timeline to develop a budgeting app using Capital One's Nessie API for the android system. Tool automatically categorizes transactions and allowed users to implement budgets.

WEB-BASED YOLOV3 | Javascript, HTML, Python, Tensorflow.js — June 2020
Converted existing machine learning model YOLOv3 based on darknet into Keras model/TensorFlow JavaScript and developed site to detect objects through webcam in real time

HOOHACKS 2019 | Swift — Mar 2019
Designed and implemented IOS app which allowed users to save their courses and grades and add hypothetical grades. Calculates grade required to achieve/sustain user defined GPA

ECO-VENT | Arduino — Mar 2020
Supported the development of ECO-Ventilator by writing and refining arduino code for data viewing

HONORS/ACTIVITIES

UMCP SCHOLARS Aug 2018-Present | SGC scholars
Recognized for participating in activities that promoted environmental awareness and organized events to raise funds for non-profit environmental organizations

TAIWANESE AMERICAN STUDENT ASSOCIATION Aug 2019-Present | TASA