Jia Yong Li

liyong2123@gmail.com | (240)645-3703 | Potomac, Maryland | https://liyong2123.github.io/

EDUCATION

UNIVERSITY OF MARYLAND, COLLEGE PARK | BS Computer Science May 2022
GPA: 3.4

WORK EXPERIENCE

BLOOMBERG LP | SWE INTERN NYC, NY | June 2021 – Aug 2021

- Utilized C++ to develop new feature, focusing on speed and throughput to simulate real world data and latency on development environments enabling a more seamless testing for all news applications
- Led the integration of recently released Kafka Connectors, reducing end to end latency by 20%
- Volunteered for local programs through Bloomberg's philanthropy program to impact local communities and charities

NASA GODDARD | SWE INTERN 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 | SWE INTERN Laurel, MD | May 2019 – Nov 2019

- 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 develop site which allowed for real time data viewing of aerosol sensor data and also provided tools for scientist to view metadata data

SKILLS

Proficient	C/C++, Java, Python, Git/Github, OCaml, Javascript, Docker, Linux, SQL, Kafka
Basic	AWS, PHP, Matlab, Swift, Machine Learning/Data Science, React

PERSONAL PROJECTS

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. Calculated grade required to achieve/sustain user defined GPA

HONORS/ACTIVITIES

UMCP SCHOLARS | SGC SCHOLARS Aug 2018 - Present
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 | MEMBER