Raymond Ma

Email: maraymond@yahoo.com   **Portfolio:** rama1997.github.io   **LinkedIn:** linkedin.com/in/raymondma97

WORK EXPERIENCE

Software Quality Operations – Senior Associate   **May 2021 – Present**
Waymo (via Akorbi)   Mountain View, CA
- Analysis the behavior of Waymo's autonomous vehicles by triaging safety related behavioral issues within driving events from both on road testing and virtual simulation runs
- Provide test reports to engineers to identify and escalates any issues found, leading to an average of 10 bugs filed per week with a triage recall accuracy of at least 95%
- Mentor a team of 10 people, conducting 1-on-1s and group mentoring sessions to review team member's work for conformance to quality standards, improving team members' triage accuracy to at least 90%
- Collaborate with specialists in the development of workflow training materials and review through PowerPoint, along with leading bi-weekly quality sync presentations to improve team productivity and quality standards

Autonomous Vehicle Test Operator   **Mar 2021 – Apr 2021**
Cruise   San Francisco, CA
- Evaluated initial software issues and areas of problematic behavior by operating Cruise's autonomous vehicle and conducting road testing, accumulated 80 real world milage a day
- Collaborated with technicians & engineers on developing and executing test procedures, troubleshooting any hardware or software issues, as well as performing safety inspections
- Assisted in the data collection of real-world driving events including city road mapping, pedestrian behaviors, weather impacts, and various traffic conditions
- Generated reports on Word and Excel providing detailed test feedback and analysis on the vehicle's performance, behavior, and operation

PERSONAL PROJECTS

Automated URL Opener   *Python, Flask*
- Built a task scheduler app that let users schedule URLs to automatically open at a specific time via Crontab
- Created a GUI along with a Flask web app to enables the ability to add, edit, and delete custom command

Minecraft Combat AI   *Python, TensorFlow*
- Trained an AI agent to learn how to fight enemies and maneuver around terrains and obstacles
- AI trained using a deep reinforcement learning algorithm called Asynchronous Advantage Actor Critic (A3C)

Lane Line Detection   *Python, OpenCV*
- Wrote a program that used computer vision to detects lane lines on the road from images and videos with the point of view of a driving vehicle

EDUCATION

University of California, Irvine   **Irvine, CA**
Bachelor of Science in Computer Science, Specialization in Intelligent System   Dean's Honor List

SKILLS AND INTERESTS

- **Languages:** Python, C++, Java, HTML, CSS
- **Tools:** Git, Flask, SQLite, Tkinter, Bootstrap, Numpy, Pandas, openCV, Visual Studio
- **Hobbies and Interests:** Bowling, Badminton, Video Games, K-Pop, Anime