

# Raymond Ma

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## WORK EXPERIENCE

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### Software Quality Operations – Senior Associate

**May 2021 – Present**

*Waymo (via Akorbi)*

*Mountain View, CA*

- Perform quality assurance on the behavior of Waymo's autonomous vehicles by triaging safety related behavioral issues within both real world and simulated driving events
- Provide feedback to engineers by reporting and escalating 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 senior specialists in the development of training materials and workflow review through PowerPoint, along with hosting bi-weekly quality sync 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

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### Automated URL Opener

*Python*

- Wrote a task scheduler application that let users schedule URLs to automatically open at a specific time
- Enables the ability to add, edit, and delete custom command into the user's Crontab
- Created a Tkinter GUI along with a Flask web application that allow users to easily input desired time and URL

### Minecraft Combat AI

*Python, TensorFlow*

- Trains AI agent to learn the optimal way to fight enemies in a custom arena, taking into account terrains and obstacles for pathfinding
- AI training uses a deep reinforcement learning algorithm called Asynchronous Advantage Actor Critic (A3C)

## EDUCATION

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### University of California, Irvine

*Bachelor of Science, Computer Science, Specialization in Intelligent System*

*Dean's Honor List*

## SKILLS AND INTERESTS

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