

# Raymond Ma

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## WORK EXPERIENCE

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### Software Quality Assurance

**May 2021 – Present**

Waymo - Contractor

Mountain View, CA

- Evaluate the behavior of autonomous vehicles through manual test cases, focusing on safety-related conflicts observed through production and simulated test scenarios
- Deliver test reports to engineers, promptly identifying and escalating issues, resulting in an average of 10 weekly bug report filed with at least 90% accuracy and 60% precision
- Perform quality check replication and regression testing to review and validate deliverables, finding upward to 5 new issues per release
- Lead and mentor a team of 4+ members, providing training, guidance, and hosting bi-weekly quality sync presentations, resulting in a 20% enhancement in overall team accuracy
- Collaborated with engineers to test, enhance, and expedite the release of a new internal software infrastructure that allowed for a 30% increase in testing speed

### Autonomous Vehicle Test Operator

**Mar 2021 – Apr 2021**

Cruise

San Francisco, CA

- Assessed initial software issues and problematic behaviors by operating Cruise's autonomous vehicle and conducting daily road tests, accumulating up to 80 miles of real-world data daily
- Worked with technicians and engineers to develop and execute test procedures, troubleshoot hardware and software issues, and conduct safety inspections
- Contributed to real-world data collection of road mapping, pedestrian behavior, weather, and traffic conditions
- Produced daily reports in Word and Excel, offering comprehensive test feedback and performance analysis

## PROJECTS

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### NBA Game Excitement Rater

*Python, Selenium*

- Created an NBA game rating system, using real-time data sourced from the NBA API to determine game watchability
- Employed the YouTube API to autonomously fetch highlight videos from the official NBA YouTube channel
- Trained a predictive model with 75% accuracy rate in win prediction to generate valuable metrics for the system

### Automated URL Opener

*Python, Flask*

- Developed a task scheduler to automate URL opening at specified times and frequencies via Crontab commands
- Enhanced accessibility with a custom GUI and a separate Flask web app for simplified command interaction

### iMessage Good Morning Bot

*Python, AppleScript*

- Built a daily messaging bot for personalized greetings, weather updates, national holidays, images, and more, utilizing web scrapers and website APIs

## EDUCATION

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**Bachelor of Science in Computer Science** - University of California, Irvine

2020

## TECHNICAL SKILLS

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**Languages:** Python, Java

**Technologies:** Git, Jira, SQL, TestNG, Selenium, Playwright