Richard Le

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Education

San Jose State University

Bachelor of Science in Computer Engineering   Graduated 2020

Experience

Symantec – (Acquired by Broadcom)   Mountain View, CA

Software Engineering Intern   May 2019 – Nov 2019

- Designed, developed, and deployed an internal tool using **AWS** Services (CloudWatch, S3, SES, SQS, Lambda), which **automated** a workflow task for on-call **Site Reliability Engineers**.
- Implemented multi-threaded **Python** script that reduced **ETL** data retrieval time by **96%**.
- Developed an **ETL Pipeline** to parse complex **CloudWatch** Metrics and load into **HTML** template, which enhanced readability and eliminated manual log checking.
- Developed backend framework of the internal tool with **RESTful** APIs and extracted **JSON** data.
- Refactored DevOps Configs with **YAML** Anchors, significantly increasing codebase maintainability

Projects

E-Commerce Web Scraper

Python, Selenium WebDriver

- Developed scripts to **automate** data scraping for **over 500** marketplace webpages daily, leading to **large** formatted **CSV datasets** for financial analysis and decision making.
- Designed simple input data formats to aggregate data for long-term and large-scale processing.

Mobile AI Application QA Testing

Java, Selenium, Appium, JUnit

- Full end-to-end QA testing process of educational mobile AI Application: Photomath.
- Planned and documented full test report including test models, methodologies, and results.
- Designed, developed, and automated 50+ **JUnit** test cases using **Selenium** and **Appium**.

AHK Automation Script Testing

- Designed, developed, and tested over 20 **AHK** (AutoHotKey) Scripts.
- Extensively ran automation testing for over 3800 hours (6-8H/day for over 1.5 years), continuously optimizing design and fixing any automation issues.

Cloud IoT Security Camera

Python, AWS, Raspbian OS, Flask, OpenCV

- Designed and developed a security camera using **Raspberry Pi** and **AWS** services (S3, SES, SNS).
- Created motion tracking using **OpenCV**. Hosted lightweight monitoring server using **Flask**.

Air Quality Index Notifier

- Interactive **Slack** bot for precise Air Quality Index data. Integrated with **Twilio** SMS alerts for critical AQI warnings & notifications. AQI Data extracted from **Breezometer RESTful API**.

Skills

Programming Languages: Python, Java, C
Cloud Technologies: Amazon Web Services AWS (CloudWatch, S3, SES, SQS, SNS)
Testing Tools: Selenium, WebDriver, JUnit, PyTest, Appium

Databases: MySQL
Technologies: Windows, Linux, Git, RESTful API, Flask, OpenCV, HTML, CSS, AHK (AutoHotKey)
Processes followed: Scrum, Agile, CI/CD