

# PATRICK WONG

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## Professional Experience:

**Qualcomm** | San Diego, CA

August 2022 – July 2023

Software Engineer – System Testing Development

- Worked under Gaurav Khetrapal, to construct new APIs and internal tools for QA team as well enhancing and accelerate testing to replace manual testing in favor of automated testing, developed test cases for Bluetooth related features for existing and future customers' products
- Used **C#** to develop new APIs and using Qualcomm's QSRP software to develop automated test plans for farm runs, used **Python** to implemented distributed task scheduling using Celery framework to improve system scalability and asynchronous task execution, **MySQL** (for database to store incoming tasks), and **Redis** (to manage incoming tasks) to enhanced and optimize company-wide internal tool to detect glitch gaps in audio files as well encode/decode audio files to be under performance evaluation.
- Managed the seamless migration of automation testing infrastructure for Bluetooth related features, which resulted in enhanced test performance, heightened efficiency, and minimized downtime.

**iRobot** | Bedford, MA

January 2022 – August 2022

Software Engineer Intern – Mobile Testing

- Worked under Gopichand Pidatala to create test cases for iOS and Android related features
- Assembled test plans, design test cases and work with software development team to automate tests for iOS and Android apps
- Used **Python**, **Appium** to prepare test automations for Jenkins to automate tests for both production and release mobile applications
- Created shell script to support Sphinx documentation generation, used by QA automation team
- Refactor entire Android test cases to support for both production and release applications

**Lam Research** | Fremont, CA

June 2021 – December 2021

Software Engineer Intern – Full Stack (Backend/Frontend)

- Worked under Dr. Raymond Chau, to create a parser to parse out Lam Research Sense.i log files.
- Supported Dr. Chau's team and collected data (for data analysis) using Lam's 2300 software while operating Sense.i machines.
- Implemented a parser for Lam Research's existing web application using **Javascript**, **Node.js** and **React.js** and deployed on Linux machines and created schemas using **Solr** database
- Enhanced **Python Flask** Application using **Pandas** and **Numpy** libraries with updated API using similar parser implemented in **Node.js** and output information onto a CSV file to be used for machine learning model building. Also tested parser API using **Postman**

**Yanfeng** | Hayward, CA

January 2021 – June 2021

IT Engineer – Contract

- Worked under IT manager – DJ Farley, maintained and monitored Yanfeng P3 and P4 infrastructure at Hayward and making sure it was operational 24/7
- Installed software and networking systems and making sure that the MES process is smooth and running.
- Reduced operational costs and downtime by resolving IT related issues in Hayward plants.
- Used **SQL** to maintain BOL as well keep track of client's parts that will be delivered and incoming deliveries.

## Education:

**California State University Long Beach** | Long Beach, CA

Aug 2020 – May 2023

M.S – Master of Science, Computer Science

**Thesis:** Normalization Of Linkedin Datasets With Long Short-Term Memory On Folded Bipartite Graph Network Embedding

**San Francisco State University** | San Francisco, CA

Aug 2016 – May 2019

B.S – Bachelor of Science, Computer Science

## Skills:

**Programming Languages:** *Proficient:* Java, Python

*Exposure:* C++, C, HTML/CSS, Swift, SQL, PHP, Javascript, Shell Scripting, C#, .Net

**Tools:** Arduino, Atom, Bootstrap, Git, Figma (Design), React, Sketch, Selenium, XCode, Postman, phpMyAdmin, SQL, mySQL, Terminal, VS Code, Solr, Flask, Appium, Jenkins, Visual Studio, P4V/Perforce, Pytorch, Scikit-learn, Tensorflow

**Operating Systems:** Windows, Mac OS, Linux