

## Elaine Yang

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### Targeting an Entry-Level Opportunity for Software Development

#### Objective / Summary

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I am looking for a challenging software engineering position in a positive environment, to grow my technical and teamwork skills, under the guidance of experienced and capable mentors. I have a persistent attitude, am a quick learner, and am willing to listen to others. My mathematical background pairs a detail-oriented and methodical approach with my love for problem-solving.

#### Technical Skills

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Programming Languages: Proficient in Python, MATLAB. Familiar with Java, HTML/CSS, C++, Flutter/Dart.

Operating Systems: Windows, Mac, Linux.

#### Education

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##### Computer Programming Certificate Program

Sep 2019 - Jun 2020 (Expected)

UCSC Extension

##### Master of Applied Mathematics

Sep 2015 - Jun 2019

National Chiao Tung University, Hsinchu, Taiwan

2 years core courses, 1 year 4 months working at Broadcom, and 6 months to complete Master's thesis.

##### Bachelor of Applied Mathematics

Sep 2011 - Jun 2015

National Hsinchu University of Education, Hsinchu, Taiwan

#### Work Experience

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##### Broadcom Limited, Hsinchu, Taiwan

Jul 2017 - Oct 2018

Software QA Engineer

- Wrote Tcl script to scrape test case statuses in real-time from the Wi-Fi Alliance test management system, to feed live results back to our team as we updated and deployed new code throughout the conferences.
- Created bash scripts to install Linux with predefined network settings on computers and servers to quickly deploy duplicate test environments. Developed and documented test scripts for automated testing and regression testing. Worked with developers to debug critical fixes to meet the project launch schedule.
- Used IxChariot and Iperf to test the Tri-Band maximum throughput of Broadcom's latest IEEE 802.11ac/ax wireless chip firmware and reported performance to corporate customers. Created script to automatically update DEPS files for new firmware tag.

##### CYBERNET SYSTEMS TAIWAN Co. Ltd, Hsinchu, Taiwan

Mar 2015 - Jun 2017

- Designed and used HTML to create over 100 new webpages of product introduction, technical articles, and use cases for the company website to educate and impress customers.

#### Projects <https://elaineyang7.github.io>

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##### Online Shopping Application

Spring 2020

- Created a Java application that allows users to sign up, log in, view products, and order, using Java Swing GUI to create window-based applications and using text files to store users' information and orders.

##### Marathon Race Runners

Spring 2020

- Used Java to simulate a marathon race between participants. The racers' information can be read from a text file or XML file or derby database. Implemented multi-threading in Java to improve application functionality.

##### Handwritten Numbers Recognition

Winter 2019

- Used machine learning algorithms and data analysis to recognize the MNIST dataset of handwritten numbers by using Python libraries such as scikit-learn, NumPy, and Pandas.

##### Wi-Fi Alliance EasyMesh Certification, Santa Clara CA

Dec 2017 - Apr 2018

- Completed the Wi-Fi Alliance certification program. Used and refined their test suite to verify and debug communication between wireless routers made by various high-tech companies, such as Broadcom, Qualcomm, Marvell, Intell, and MediaTek.
- Built and released a script package for connecting a test suite to Broadcom's router, significantly outperforming other companies by over 105 more test cases.