

# Elaine Yang

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## Objective / Summary

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A methodical and dedicated programmer seeking to leverage my technical abilities, interpersonal skills, and unwavering work ethic to grow as a software engineer in a positive, dynamic work environment. With a strong mathematical background, I am looking for a position that will benefit from my critical thinking and problem-solving expertise.

## Technical Skills

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Programming Languages: Proficient in Python, MATLAB. Familiar with Java, HTML/CSS, JavaScript, C++.  
Operating Systems: Windows, Mac, Linux.

## Education

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**Computer Programming Certificate Program** Sep 2019 - Jun 2020  
UCSC Silicon Valley Extension, Santa Clara, CA

**Master of Applied Mathematics** Jun 2019  
National Chiao Tung University, Hsinchu, Taiwan

**Bachelor of Applied Mathematics** 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

- Created an analysis dashboard for monitor live competition test case results, which helped the team won six consecutive industry competitions.
- Created scripts to automatically update DEPS files for new firmware tags and automatically install Linux with predefined network settings on computers and servers to quickly deploy duplicate test environments which reduce the work by 60%.
- Developed and documented test scripts for automated testing and regression testing to identify the performance of Broadcom's latest IEEE 802.11ac/ax wireless chip firmware and worked with developers to debug critical fixes to meet the project launch schedule.
- Represented Broadcom in the Wi-Fi Alliance EasyMesh certification program. Verified and debugged communication between wireless routers accounting for inter-op issues between manufacturers, such as Broadcom, Qualcomm, Marvell, Intel, and MediaTek. Passed 600 test cases within 10 days.

**CYBERNET SYSTEMS TAIWAN Co. Ltd**, Hsinchu, Taiwan Mar 2015 - Jun 2017

- Developed over 100 HTML webpages ranging from product instructions, technical articles, and case studies to drive B2B sales.
- Increased company website traffic by 60% through search engine optimization.

## Projects

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**Microblogging** <https://elaine-microblog.herokuapp.com/>

- Built a small social microblogging platform by using Python/Flask framework and SQLAlchemy to establish the backend and using Bootstrap to build the frontend.
- Implemented OAuth2 based authorization for users to log in with Google or Facebook account.

**Online Shopping Application**

- Developed Java Swing GUI application with durable storage, basic account management, and e-commerce-like interactions.

**Personal Portfolio Web Application** <https://elaine-portfolio-web.herokuapp.com/>

- Designed and developed my personal portfolio as a web application on the Heroku cloud platform, using Python, Flask, HTML, and CSS.