Elaine Yang

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Targeting an Entry-Level Opportunity for Software Development

Objective / Summary

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

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

Education

Computer Programming Certificate Program   *Sep 2019 - Jun 2020*
UCSC Extension

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

Broadcom Limited, Hsinchu, Taiwan   *Jul 2017 - Oct 2018*
Software QA Engineer
- Built Tcl scripts to scrape live competition test case results, which gave our team the competitive edge to continually update our strategy, thus allowing us to repeatedly take 1st place for 6 consecutive industry competitions.
- Developed 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.
- Implemented IxChariot and Iperf testing to identify the Tri-Band maximum throughput of Broadcom's latest IEEE 802.11ac/ax wireless chip firmware and reported performance to corporate customers. Created scripts to automatically update DEPS files for new firmware tag.
- 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, Intell, and MediaTek. Outperformed competitor testing by more than 100 cases.

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.

Projects

Online Shopping Application   *Spring 2020*
- Developed Java Swing GUI application with durable storage, basic account management, and e-commerce-like interactions.

Marathon Race Runners   *Spring 2020*
- Simulate a marathon race between participants. Learned how to implement multi-threading in Java and how to read data from XML files and derby databases.

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.