Raquel Lin

Email: raquellin2@gmail.com

Website: https://raquellin.com/
GitHub: https://github.com/whistlerat
LinkedIn: https://www.linkedin.com/in/raquel-lin-b14458173/

TECHNICAL SKILLS

Software:	· Unity	· Git/GitHub	**Languages**:	· C / C++	· JavaScript
	· Bash Shell (Linux)	· Latex		· Python	· C#
				· HTML/CSS	

WORK EXPERIENCE

Firmware Intern, *Western Digital*

· Optimized firmware test code for testing team by implementing specialized API
· Accelerated deployment of projects by an average of 2 days by handling adjacent test cases for team
· Utilized company API to verify the effects of firmware on drives with the assistance of mentors
· Refactored code base to increase code sustainability, decreasing amount of time needed to investigate legacy code before projects begin

Term 1:
May 2020 – Sept. 2020

Term 2:
Jun. 2020 – Sept. 2020

EDUCATION

Bachelor of Science, **Computer Science**
· University of California, Riverside

August 2018 – Present
Graduating June 2022

PROJECTS

Haunted House Exploration Puzzle	· Created stylized "haunted house" puzzle solving and adventure game using Unity and C# · Game logic includes item interaction and object physics among other fundamental game mechanics
Password Crack using md5 Hash	· Created password cracking program to deal with passwords hashed with md5 · Written in C and utilizes OpenSSL library · Generates series of passwords that are most likely to be used (for passwords) and matches the created hash with the goal hash
xv6 Operating System Manipulation	· Manipulated features of the open source "xv6" operating system · Altered system scheduler to create a round robin task assignment system · Reorganized memory layout of operating system to ensure that all available space between the stack and heap are utilized efficiently
Website tribute to Miyazaki	· Tribute website created for Rose Hack 2019 using JavaScript, HTML/CSS · Image transitions and other animations for the website were implemented using JavaScript
Bash Shell Implementation	· Variation of the bash shell created using C++ · Takes advantage of various design patterns to increase code development efficiency · Parses user input to distinguish and execute bash commands · Can take options in the form of flags