

# Raquel Lin

Email: raquellin2@gmail.com  
[Website](#) | [GitHub](#) | [LinkedIn](#)

## OBJECTIVE

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To utilize my knowledge and abilities in computer science to find new and interesting ways to solve problems as well as build on my own skills by working collaboratively with others.

## TECHNICAL SKILLS

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**Software:**

- Latex
- Bash Terminal (Linux)
- Git/GitHub

**Languages:**

- C / C++
- Python
- HTML/CSS, JS

## EXPERIENCE

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### **Firmware Intern, Western Digital**

- Optimized firmware test code for testing team by implementing specialized API.
- Sped up deployment of projects by handling adjacent test cases for team.
- Worked on multiple projects involving usage of company software to assess the impact of firmware on hard drives with the help of assigned mentor.
- Refactored trunk code to enable better code sustainability.

#### Term 1:

Start: May 2020  
End: Sept. 2020

#### Term 2:

Start: June 2021  
End: Sept. 2021

### **General Assistant, Optec**

- Provided administrative assistance to the team by maintaining records.
- Updated survey system to increase productivity.

Start: May 2018  
End: Sept. 2018

## EDUCATION

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### **Bachelor of Science, Computer Science**

- University of California, Riverside

August 2018 – Present  
Graduating June 2022

## PROJECTS

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### xv6 Operating System Manipulation

- Used open source "xv6" operating system as a base for learning how to manipulate operating systems.
- Adjustments include altering system scheduler and reorganizing the memory layout of the operating system itself.

### Website tribute to Miyazaki

- Website created for Rose Hack 2019 using HTML/CSS.
- Rudimentary animations for the website were implemented using JavaScript.
- The goal of the website was to create a simple tribute to Hayao Miyazaki, one of the founders of Studio Ghibli of animation fame.

### Haunted House Exploration Puzzle

- Created stylized haunted house puzzle solving and adventure game using Unity
- Used Unity Store assets for graphics, created own logic and algorithms for the game.
- Said logic includes item interaction and basic object physics among other game mechanics.

### Password Crack using md5 Hash

- Created brute force program to crack passwords hashed with md5
  - Written in C and utilizes OpenSSL library
  - Iterates through alphabet and hashes all possible iterations to match to the given hash
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