# Wai Yan Phyo (Justin)

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## Education

**University of California, Berkeley** *GPA: 3.62* **Expected December 2021**

- Electrical Engineering & Computer Science Undergraduate
- Relevant Courses
  - Software Engineering | Computer Security | Efficient Algorithms and Intractable Problems | Operating Systems and System Programming | Data Structures | Machine Structures

## Skill

**Languages**

- Python | C++ | Java | Scheme | SQL | C | HTML | CSS | C# | Ruby | JavaScript | Go

**Frameworks**

- Ruby on Rails | Django | Bootstrap

**Tools**

- Git | gdb | PintOS | IntelliJ | Jupyter Notebook | Heroku | Travis CI | Unity

## Project

**RoomPals**

- Designed and programmed a web app to keep track of chore lists among a group of roommates
  - Built upon Django's MVT framework
  - Utilizes Heroku to host the web app
  - Utilizes sqlite3 on development and PostgreSQL on Heroku
- Users can assign chores to their roommates who are in the same apartment
- Users can create, join, or leave apartments at any given time

**PintOS**

- Designed and developed various features for PintOS
  - Some of the features include: a scheduler for the OS, thread priority donations, buffer cache (Least Recently Used), dynamic memory allocation (allocating stack and heap), a simple shell for the OS (cd, ls, piping between commands), a filesystem which mimics the Fast File System design (utilizes direct and indirect pointers) that can also resolve directory/file paths and perform various commands on given directory/file (create, read, write, etc.)

**Gitlet (Data Structures)**

- Developed a version-control system that mimics some of the features of Git
  - Some of the features include: init, add, commit, rm, status, checkout, branch, reset, merge
  - Designed a graph-like structure with folders and files to keep track of the versions and the contents of each version, hashing each version with SHA-1 hash value

## Experience

**Academic Intern** **Present – December 2019**

*University of California, Berkeley*

- Assist CS 61A: Structure and Interpretation of Computer Programs students with their homework, labs, projects, or any questions they have related to the class materials
- 3-hour commitment per week