




**Major: Computer Science**

## INFO

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 <https://lucylanlou.github.io/>

## SKILLS

- **Languages:**

Python, Java, C, C++, JS,  
HTML, CSS, SQL, PHP

- **Tools:**

Adobe: XD, LR, PS, PR, AU  
Android Studio, Visual Studio,  
Figma, Microsoft Suite, Unit  
Testing, STemWin, GitHub

- **Foreign Language:**

Mandarin

## LEADERSHIP

- Cal Gymnastics Club Officer
- Cal Cheerleader
- CureSMA/MDA fundraiser

## INTERESTS

- UI, UX, HCI Design
- Front-end/Backend Software
- Web/App Design/Development

## EXPERIENCE

- **Software Engineer Intern at Mesa Biotech**

*June 5, 2019 –*

- UI design and software development for new-to-market portable PCR testing device for Covid-19, flu, and other infectious diseases
- Prototyped with Adobe XD, used STemWin library for graphics
- Worked with software involving a Hierarchical/Finite State Machine with asynchronous posting/publishing events, RTC interrupts
- Added print feature with ESC/POS printing commands
- Created maintenance user function with unique 1 time SHA-256 hashed passwords retrievable with a Window Forms App
- Contributed to USB based Export/Import & barcode scan function
- Implemented unit-testing with VS C++ Native Unit Test
- Updated software requirements documentation

- **National Association of Intercollegiate Gymnastics Clubs (NAIGC) Software Development Team Member**

*December 1, 2020 –*

- Developing new scoring system using PHP and MySQL

- **CSM Mentor**

*September 5, 2019 – December 18, 2020*

- Tutored small group every week on CS61A topics
- Created cribsheets for various topics for future mentors

## EDUCATION

### University of California, Berkeley

*Expected Graduation: May 2022*

#### Relevant Courses:

- **CS160 User Interface Design and Development**

- Made 3 Android apps in Android Studio with Google APIs
- Front end lead in group project: early childhood learning app called Tiny Tales for creative storytelling. Used google vision API to generate 4 related images based on imported pictures for child to record a story. <https://tinyurl.com/TinyTalesPortfolio>

- **CS198-056 Web Design Decal**

- Created 2 websites with html, css, and js
- Visual design, typography, color theory, motion, accessibility

- **DESINV98 Human Centered Design**

- Industry design process and theory/prototyping with Figma
- Project: WaterSleeves <https://tinyurl.com/WaterSleeves>

- **CS61B Data Structures**

- Multiple projects with use of data structures such as a map application, percolation threshold estimator, world game

- **CS61C Great Ideas in Computer Architecture**

- Built a 2-stage pipeline RISC-V CPU on Logism

- **CS61A Structure and Interpretation of Computer Programs**

- Coded games and a scheme interpreter with python

- **CS70 Discrete Mathematics and Probability Theory**

- **CS170 Efficient Algorithms and Intractable Problems**