





**Major: Computer Science**

## INFO

 Berkeley, CA || San Diego, CA

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

## SKILLS

- **Languages:**  
Python, Java, C, C++, JS, HTML, CSS, SQL, PHP, RISC-V
- **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

## INTERESTS

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

## EXPERIENCE

- **Software Engineer & Developer Intern at Mesa Biotech**  
*June 5, 2019 – Currently Still Employed*
  - UI and software updates/bug fixes 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
  - Software was 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 I coded
  - Exporting/Importing data with USB and barcode scan function
  - Unit-testing with VS C++ Native Unit Test
  - Software requirements documentation
- **National Association of Intercollegiate Gymnastics Clubs (NAIGC) Software Development Team Member**  
*December 1, 2020 – Currently Still Volunteering*
  - 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 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
- **DESIN98 Human Centered Design**
  - Industry design process and theory/prototyping with Figma
  - Project: WaterSleeves <https://www.behance.net/gallery/96314123/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**