Lucy Lou

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Creative software engineer with expertise in both software development and UI/UX design. Eager to pursue full-stack engineering to leverage my diverse skill set and build innovative, impactful products.

WORK EXPERIENCE

- **Thermo Fisher Scientific**, San Diego
  Software Engineer II   07/2022-Present
  - Collaborated cross-functionally to accelerate feature completion of an embedded systems medical PCR testing device by implementing user interface and new functionalities (such as exporting logs to a USB, scanning/saving barcode data, user authentication and persistent lockout if auth fails 3x)
  - Troubleshooted/fixed bugs in firmware with hierarchical state machines & asynchronous processing
  - Integrated/improved device line detection algorithm w/ smoothing, color contrast, and derivatives

  Software Engineer Intern   01/2021-08/2021
  - Built React Native mobile app that aids with recording mass PCR testing by scanning patient info barcodes, takes pictures of result strips, and uploads to an AWS Cloud database
  - Enhanced website used to view test results with company branding, test strip image viewing ability, and interactive customer stat graphs with various React APIs
  - Created Power BI reports for marketing spends

- **Mesa Biotech**, San Diego
  Software Engineer Intern   06/2020-01/2021
  - Worked on the UI design and firmware development of touch screen PCR testing device
  - Prototyped UI with Adobe XD and implemented with STemWin gui graphics library
  - Developed the front-end and back-end of new features such a maintenance user with unique hashed passwords retrievable with an external app and a test result print functionality
  - Implemented unit-testing with VS C++ NativeUnit Test framework
  - Updated software requirements documentation

- **National Association of Intercollegiate Gymnastics Clubs (NAIGC)**, Remote
  Software Development Team Member   12/2020-Present
  - Improved the NAIGC registration website's usability, UI, UX and competition scoring features
  - Used Ajax calls with MySQL database to save and load club and member data

EDUCATION

- **BA Computer Science, Certificate in Design Innovation**
  University of California, Berkeley   08/2018-05/2022

- **Leadership/Extracurricular at UC Berkeley**
  - Computer *Science Mentor (CSM)*   08/2018-05/2022
  - Cal Cheerle*ader and Cal STUNT Student Athlete*   10/2018-05/2022 (Captain 2021-2022)
  - Cal *Gymnastics Club Team Member*   08/2018-05/2022 (Officer 2019-2022)

SKILLS

- **Languages:** Python, Java, C++, JavaScript, TypeScript, React & React Native, HTML, CSS, SQL, PHP, C

- **Tools/Libraries:** Visual Studio, Figma, GitHub, Unit Testing, Adobe: XD, LR, PS, PR, EU, AI

- **Foreign Language:** Mandarin