

Lucy Lou

Software Engineer • San Diego, CA • (858) 900-5331

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

WORK EXPERIENCE

• Thermo Fisher Scientific, San Diego

Software Engineer II 07/2022-06/2023

- Collaborated cross-functionally using Agile software development 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
- Improved the test result strip line detection algorithm w/ smoothing, color contrast, and derivatives of pixels

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 MS Power BI reports to visualize data from marketing spends and revenue

• 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 onto device with STemWin GUI graphics library
- Developed the front-end and back-end of new features such as the maintenance application and a test result print functionality that uses ESC/POS commands to print receipts
- Implemented unit-testing with VS C++ NativeUnit Test framework for test driven development
- Updated software requirements documentation

• National Association of Intercollegiate Gymnastics Clubs (NAIGC), Remote

Software Development Team Member 12/2020-01/2022

- 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 Cheerleader 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, JSX, TypeScript, HTML, CSS, SQL, PHP, C

• **Tools/Libraries:** ReactJS & React Native, GraphQL, REST APIs, Figma, GitHub, Adobe: XD, LR, PS, PR