

Lauren Liu

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EDUCATION

UNIVERSITY OF CALIFORNIA, SAN DIEGO ('12-present), *B.S Computer Science* (expected 2017 graduation)

WORK EXPERIENCE

The Design Lab, UCSD Jul '16-present

Research Assistant

- Working on a yearlong project with the goal to design an interface that uncovers commonalities of users through discussion, as well as to design an effective and engaging approach towards teaching a topic online. For this particular project we are designing a site for generating data from user discussions for analytics on a specific topic. Our group is using the results of this project to establish best methods of facilitating peer discussion in a way that enhances online education.
- Responsible for prototyping and wireframing for all pages.
- Will also help develop the frontend at a later stage in the project.

ThermoFisher Scientific, IonTorrent Jun '15-Sept '15

Software Developer Intern

- Worked on build automation with Jenkins for IonReporter, a statistics application for IonTorrent, a gene sequencer.
- Automated the install procedure within the build process.
- Automated the deployment of IonReporter onto the cloud test server.

Center for Renal Translational Medicine, UCSD School of Medicine, La Jolla, CA Nov '13-present

Bioinformatics Programmer, Webmaster

- Developed a visualization plugin written in Python for the system network visualizer Cytoscape. Developed scripts and programs written in Python and Java that collect data from XML databases that are up to 15 million entries in size.
- Maintaining content on CRTM lab website and streamlining HTML source code.

PROJECTS

POLLR (<http://pollrsd.herokuapp.com/>) May '16-Jun '16

Worked on the frontend of a website designed to let users discover demographic data about a specific congressional district (restricted to San Diego county). Users may select a district from an interactive map, which triggers a display of the data.

Technologies: HTML, CSS, Javascript, Node.js, Express

SAYFR (sayfr.herokuapp.com) Apr '16-May '16

SAYFR is the precursor project to POLLR. Worked on the frontend of a website designed to give users information about the relative safeness of their neighborhood (restricted to San Diego county). Users may navigate an interactive map interface to view the data.

Technologies: HTML, CSS, Javascript, Node.js, Express

Frank [Mobile Site] (frank-app.herokuapp.com) Jan '16-Mar '16

Worked on the frontend of a mobile website designed to let users give and receive feedback on their personal fashion. Users may post pictures of their fashion looks, and can upvote/downvote and comment on these posts. Currently the site is not connected to a backend, and data is handled asynchronously with Javascript functions.

Technologies: HTML, CSS, Javascript, Node.js, Photoshop, Illustrator, Bootstrap

Personal Website

Designed a website to display my portfolio.

Technologies: HTML, CSS, Javascript, Node.js

SKILLS

Languages: Java, Javascript, HTML, C, Python, XML, bash

Development Tools: Eclipse, VIM, Invision, Sketch, GIT

Operating Systems: OS X, UNIX/Linux

Software: Jenkins, Illustrator, Indesign

RELEVANT COURSES

HCI/UI: Intro to HCI Design, HCI Programming Studio

General Programming: Server-side Web Applications, Programming Methodology (Java), Advanced Data Structures (Java, C++), Object Oriented Design (Java, C, C++), Software Tools and Techniques, Intro to Artificial Intelligence

Backend: Computer Organization & Systems Programming, Compiler Construction (Java)

Logic: Programming Languages, Mathematics for Algorithms/System Analysis, Discrete Mathematics, Automata/Computability Theory (Haskell)