

Kelly Liu

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LINKS

LinkedIn | www.linkedin.com/in/kellyliu0 Portfolio | <https://kellyliu42.wixsite.com/kellyliu> Github | <https://github.com/kliu3247>

EDUCATION

University of California, Berkeley

Aug 2019 - Present

B.S Bioengineering | Electrical Engineering + Computer Science Minor

3.92 GPA

Coursework: Data structures, Structure & interpretation of Computer Programs, Web Design, Designing Information Devices & Systems, Prototyping and Fabrication, Single & Multivariable Calculus, Physics for Engineers, Biomedicine for Engineers, Chemistry

Organizations: Engineers Without Borders, Berkeley Innovation, Society of Women Engineers, Theta Tau Engineering Fraternity

EXPERIENCE

Software Engineering Intern

zHealthEHR

Aug 2020 - Present | Berkeley, CA

Implementing an auctioning service for health and wellness practitioners. Leveraged MySQL to create data blueprints, organize data, and Figma for UI/UX. zHealthEHR is a start-up company disrupting the wellness industry with technology integration.

Consultant for Patagonia

Berkeley Innovation

Sept 2020 - Present | Berkeley, CA

Redesigning Patagonia's hang tags for sustainability and technology integration. My team and I implemented the human-centered design process, gathering over 400 user research points, prototyping, and iterating for clients/ stakeholders.

PROJECTS

Nicaragua Sanitation Project

Engineers Without Borders | UC Berkeley

Sept 2020 - Present | Berkeley, CA

Implementing engineering techniques to build latrine sanitation stations for 366 people. Working on remote assessment to understand land conditions. Current latrines have been overused, resulting in contamination and poor sanitation conditions.

Data Structures, Testing, and Higher Order Functions

CS 61B | Data Structures

Sept 2020 | Berkeley, CA

Built data structures which implements a "Double Ended Queue" using lists and arrays with the Deque API. Wrote JUnit tests and rigorous random testing to verify correctness. Applied data structures to a palindrome detector.

Notate

Hack the 6ix | Hackathon

August 2020

Developed a video calling app which leverages Machine Learning algorithms and Google APIs in real-time to enhance remote learning. We connected students worldwide by creating a smart hub for notes. Worked on UI/UX and presentation: <https://devpost.com/software/notate>.

RESEARCH

Innovation Research Intern

Taylor Collaborations Lab | St. Mary's Hospital

Nov 2019 - Jan 2020 | San Francisco, CA

Conducted orthopaedic innovation research in syndesmotic (ankle) injury treatment methods. Performed load testing, wrote test methods, assembled cadaver mechanisms, and implemented innovative, cost-effective technologies.

Research Intern

Mark Freidberg Lab | Sick Kids Hospital

May 2018 - Sept 2018 | Toronto, Canada

Co-author of scientific manuscript on hypertension disease. Synthesized 10,000 data points of mice cells measurements

PROGRAMMING + SKILLS

Programming: Java, JUnit, Python + Python Numpy, SQL, CSS3, HTML5, JavaScript, Github, Devpost

Skills: Strong Interpersonal Skills, Creative Problem Solving, Microsoft Office, Prototyping + Fabrication, Human-Centered Design, Biotechnology Industry, Technical STEM Knowledge, Microsoft Office, Collaboration Tools, Business, Marketing, Leadership, Project Management, Entrepreneurship, Start-ups, Organization

Design: Miro, Figma, Adobe Software (Illustrator, Photoshop, Lightroom), iMovie, Drawing, Painting, Set Design, 3D Printing, Laser Cutting, AutoCAD, CAD, User Interface and User Experience, User Research