




LARA J. CHU

CONTACT

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EDUCATION

University of California, Berkeley

B.S. Electrical Engineering & Computer Science
Aug. 2017 - May 2021

SKILLS

- Python
- Java
- C
- React.js
- HTML
- CSS
- PHP
- SQL
- Git
- Figma

RELEVANT COURSES

- Efficient Algorithms
- Computer Architecture
- Data Structures
- Cyber Security
- Artificial Intelligence
- Data-Driven Startups and Businesses
- Discrete Mathematics and Probability Theory
- Designing Information Devices and Systems

EXPERIENCE

Software Development Intern

Freddie Mac

May 2020 - Aug. 2020

- Developed 'Atlas Data Manager' a user-friendly full-stack web application equipped to perform CRUD operations for over 400 tables in the Atlas data-base
- Led a team of 9 interns to devise a document digitization software portal to efficiently automate data reconciliation for a Multifamily Innovation Lab Competition
- Worked with Eclipse Jetty, MyBatis, Docker, Gradle, and React.js

Web Applications Developer

Berkeley Law

Mar. 2020 - Present

- Working on front-end and back-end to develop dynamic web apps for Berkeley Law staff and student orgs with HTML/CSS, PHP, and MySQL
- Modernizing deprecated seating chart application with React.js and Laravel

Web Committee

The Berkeley Project

Jan. 2019 - Apr. 2019

- Formulated Python scripts to optimize lunch deliveries, T-shirt inventory, and site leader information into CSV files
- Updated the Berkeley Project website and application portal regularly with volunteer training schedules and photos

Web and Data Analytics Intern

EthiCal Apparel

Jan. 2019 - Apr. 2019

- Improved the UI and creative design of the website and updated apparel product information
- Utilized Google Analytics and Tableau to analyze and track successful sales trends in order to propose effective marketing strategies

Course Staff

UC Berkeley EECS

Jun. 2018 - Jul. 2018

- Helped 15+ students through group tutoring on topics like object oriented programming, abstraction, recursion, and trees

PROJECTS

Smart Key Rack

- A weight-sensing key shelf that tracks and reports which housemates are at home through a website using Flask, Firebase, and Raspberry Pi
- Developed Python scripts used to monitor pressure pads, control stepper motors, and update the website

Amazons: the Board Game

- The Amazons board game in Java complete with an opposing AI implemented with alpha-beta pruning, heuristic values, and a minimax algorithm designed to beat the human player within a set number of moves

Travel Planner

- Implemented BFS, DFS, and Dijkstra's algorithm traversal methods in Java to be used with various clients such as the travel planner, which prints out a detailed list of travel directions given a starting location and destination

Sweater Weather

- A dynamic web application with search functionality that provides a 5-day forecast and a short description of outfit ideas depending on the temperature for an inputted location using React Bootstrap and OpenWeatherMap API