

# John Le

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## EDUCATION

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### University of California, Berkeley

Expected: May 2022

Bachelors of Arts - Computer Science

- **Relevant Coursework:** Algorithms, Artificial Intelligence, Computer Programs, Computer Security, Data Structures, Data Science, Information Devices and Systems I & II, Discrete Mathematics and Probability Theory, Machine Structures
- **Cal Badminton:** Equipment Manager for the club and competed in club meets with various other institutions

## SKILLS

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- **Programming Languages:** Java, C, Python, SQL, Scheme, JavaScript, HTML/CSS, RISC-V Assembly
- **Tools:** Git, Flask, React/React Native, NumPy, Node.js, Express.js, MongoDB, GraphQL, LaTeX, Heroku

## WORK EXPERIENCE

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### Software Development Engineer Intern - Amazon

Summer 2021

- Incoming Software Development Engineer Intern at Amazon

### Software Engineer Intern - Circle (YC W20)

January 2021 - February 2021

- Interning at YCombinator backed startup developing and testing mobile applications using GraphQL, Google APIs, MERN stack, and other technologies and frameworks
- Develop User Interfaces with React Native for iOS and Android and build additional backend logic with GraphQL and MongoDB integration to handle both synchronous and asynchronous requests

### CS 61B (Data Structures) Mentor - UC Berkeley Computer Science Mentors

August 2020 - Present

- Direct weekly tutoring sections with 4-5 students to reinforce data structure concepts
- Contribute towards lesson planning and providing educational material such as weekly problem sets
- Teaching topics include data structures, sorting algorithms, and graph algorithms

### Academic Intern - UC Berkeley EECS Department

June 2020 - August 2020

- Academic Intern for CS 61B (Data Structures)
- Assist 30+ students in labs with debugging and reinforcing data structure concepts
- Give guidance to students on assignments, projects, and course material

### Teacher Assistant - East Side Union High School District

June 2019 - July 2019

- Assisted teacher in developing coursework for Math Analysis
- Give guidance to 35+ students daily

## PROJECTS

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### Court Queuing System

Github: <https://git.io/JLSjj>

- Developed a full-stack web application for use by Cal Badminton
- Allows players to sign up on a queue during open gym sessions and sends notifications when it is their turn
- Other features include admin privileges such as removing players and manually prompting notifications
- Designed and built backend service using the Websocket API to allow for real-time collaborative editing
- Languages and Tools: Javascript, HTML/CSS, Express.js, Node.js, React

### Todo List

Github: <https://git.io/JLSjF>

- Full-stack web application that supports basic features such as adding, deleting, and editing tasks to a list
- Utilized GraphQL and MongoDB integration to design and build backend
- Also created a mobile frontend version of the Todo List App for iOS using React Native
- Languages and Tools: Javascript, HTML/CSS, GraphQL, MongoDB, Express.js, Node.js, React/React Native

### Gitlet

Github: Private Repo

- Developed a simple version control system based on git from scratch
- Designed internal file structures with a hash-based storage system and implemented various basic features
- Some features include file tracking, backup commits, branching, merging, and remote usage
- Languages and Tools: Java