

# Charlotte Le

510-375-9728 | charlottele@berkeley.edu | linkedin.com/in/charlotte-le | charlotte-le.com

## Education

### University of California, Berkeley

B.A. Computer Science, Minor in Politics, Philosophy & Law (PPL)

GPA: 4.0/4.0

Expected May 2024

## Technical Skills

**Languages:** Python, Java, C, C#, C++, JavaScript, HTML/CSS, R, Swift, SQL

**Tools:** Docker, Jupyter, Git, AWS, Maven, MySQL, MongoDB, Node.js, Apache Superset

**Frameworks/Libraries:** Spring, Quartz, Numpy, Mockito, Hibernate, Pandas, PyTorch, Matplotlib, React.js

## Work Experience

### PlayStation (Sony Interactive Entertainment)

Los Angeles, CA

Software Engineer Intern

May 2022 – Present

- Designed and built dashboard from scratch for data and status of content pipeline services
- Parsed through responses from RESTful APIs (Java, Spring, AWS) and integrated Quartz for automation
- Implemented APIs that query request and job response history stored in database (MySQL, JDBC, Hibernate, JPA)

### UC Berkeley EECS Department

Berkeley, CA

CS 61A Head Undergraduate Student Instructor (TA)

Jun 2022 – Present

- Directing staff for 2000-student course (Python, Scheme, SQL, recursion, trees, linked lists, OOP, interpreters)
- Maintaining infrastructure software and teaching primary 500-student discussion

CS 61A Undergraduate Student Instructor (TA)

Jan 2022 – May 2022

- Taught sections, published multiple guides, and responded to 1000+ student debugging questions
- Only undergraduate promoted in Spring 2022 after exceptional student feedback and work performance

### Berkeley Algorithms for Computing and Education Lab

Berkeley, CA

Undergraduate Research Assistant

Aug 2021 – Present

- Investigating computer-based testing to develop course infrastructure under Professor Dan Garcia
- Deploying random exam variant generators and automating grading processes through HTTP requests

### Snoonu

Doha, Qatar

Software Engineer Intern

Jul 2021 – Aug 2021

- Worked under backend developer in a technology company projected to be the first Qatari unicorn
- Contributed to new system for e-commerce service application and that increased performance by 1.5x (.NET)
- Optimized ETA tracker using ML architecture (k-means clustering & random forest)
- Deployed recommendation engine (Flask) and improved database efficiency (e.g. enabled query results over 20 MB) by transferring and querying data of 150k+ users for all departments

### Bit Reboot

Doha, Qatar

Software Engineer Intern

Dec 2021 – Jan 2022

- Spearheaded web projects (JS, HTML, CSS) and mobile applications (Java, Swift), leading to x2 clients

## Projects

### Cruuz | Swift, Node.js, MongoDB

May 2021 – Jun 2022

- Managed software team of 15+ as the Chief Technology Officer to develop mobile application
- Built user application, allowing users to book appointments from nearby beauty service providers
- Integrated supporting business application, allowing providers to manage their clients and finances
- Admitted into Batch 12 of Berkeley SkyDeck's accelerator program (~1% acceptance rate)

### Trading Bot | C#, TWS API

Dec 2021 – Present

- Automated a profitable strategy for a professional day trader with market scanning, data retrieval, and order placement
- Calculates technical indicators such as moving averages, VWAP, and RSI