

# Yu Xi Gui

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## EDUCATIONAL BACKGROUND

University of California, Berkeley

*Expected: Spring 2022*

B.A. Computer Science and Data Science

**GPA: 3.8**

**Relevant Coursework:** Algorithms, Operation Systems, Machine Learning, Data Structures, Machine Structures, Computer Programs, Information Devices, Discrete Mathematics and Probability Theory, Data Science

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## SKILLS

### Programming Languages

- Java, Python, C, JavaScript, SQL, HTML/CSS, ReaReact Native, RISC-V Assembly, Scheme, R

### Framework and Tools:

- Git, IntelliJ, Eclipse, NumPy, BeautifulSoup, Jupyter Notebook, Expo, Pandas, Matplotlib, Seaborn, Hive

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## RELEVANT EXPERIENCE

### Hulu

**Los Angeles, CA**

*Incoming Software Engineer Intern*

*May 2021 - Present*

### UC Berkeley EECS Department

**Berkeley, CA**

*Data Structures/Computer Architecture Academic Intern*

*January 2021 – May 2021*

- Helped answer questions and teach topics such as higher order functions, object-oriented programming principles, C, RISC-V assembly, high-level CPU design, parallelism in classes with 1000+ students

### UrsaTech at Berkeley

**Berkeley, CA**

*Project Developer*

*August 2020 - Present*

- Working with Engineering Student Council to provide data-driven assistance with its oversight of student organizations
- Gathering and analyzing data from over 50 Engineering clubs on campus to understand the correlation between demographic information and perception of club culture and inclusivity

### BruinLabs | Entrepreneurship Program at UCLA

**Los Angeles, CA**

*Lead Hacker*

*June 2020 - Present*

- Develop an app using React Native and JavaScript to promote local businesses in Los Angeles affected by Covid-19
- Researched US small business administration data resources and APIs to include relevant businesses with a build team of 5
- Users are able to optimize restaurant searches based on owner demographics, gender, and hours of operation

### Convergent at Berkeley

**Berkeley, CA**

*Lead Designer*

*August 2019 - December 2019*

- Engaged in the design and marketing of a mobile app “RendezNew” that helps students to find study buddies in Berkeley libraries and promotes local businesses that offer incentives for tutors
- Researched and assessed relevant and feasible API libraries that align with app design
- Designed a pitch deck that includes statistics, monetization plan, and competitive landscape to investors

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## PROJECTS

### Gratitude

*August 2020 - Present*

- Develop a website using JavaScript and HTML/CSS that collects college application data from Bellevue School District (BSD) graduates to facilitate college applications for BSD students who lack competitive resources
- Collected 30+ BSD graduates’ responses and used Python to extract relevant data

### Mini Git

*May 2020*

- Implemented a Java version-control system with tree and hash table data structures that closely mimicked the real Git
- Included basic commands like commit, branch, merge, and remote
- Generated various test cases to ensure functionality of the program

### Enigma

*March 2020*

- Programmed using Java and object-oriented programming to simulate encryption technology used in World War II with classes like rotors and ratchets
- Applied understanding of polymorphism and inheritance to create digital analogs and allowed optimization on the default machine setup