

Yu Xi Gui

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EDUCATIONAL BACKGROUND

University of California, Berkeley

B.A. Computer Science and Data Science

Expected: Spring 2022

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

SKILLS

Programming Languages

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

Framework and Tools:

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

RELEVANT EXPERIENCE

Hulu	Los Angeles, CA
Software Engineer Intern	May 2021 - Present
<ul style="list-style-type: none">Managing Hulu user's interaction with content. (complexity is number of user times number of content)Building distributed service and storage system to support a huge volume of Hulu home page read and write traffic.	
UC Berkeley EECS Department	Berkeley, CA
Data Structures/Computer Architecture Academic Intern	January 2021 – May 2021
<ul style="list-style-type: none">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
<ul style="list-style-type: none">Working with Engineering Student Council to provide data-driven assistance with its oversight of student organizationsGathering 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
<ul style="list-style-type: none">Develop an app using React Native and JavaScript to promote local businesses in Los Angeles affected by Covid-19Researched US small business administration data resources and APIs to include relevant businesses with a build team of 5Users 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
<ul style="list-style-type: none">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 tutorsResearched and assessed relevant and feasible API libraries that align with app designDesigned a pitch deck that includes statistics, monetization plan, and competitive landscape to investors	

PROJECTS

Graditude	August 2020 - Present
<ul style="list-style-type: none">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 resourcesCollected 30+ BSD graduates' responses and used Python to extract relevant data	
Mini Git	May 2020
<ul style="list-style-type: none">Implemented a Java version-control system with tree and hash table data structures that closely mimicked the real GitIncluded basic commands like commit, branch, merge, and remoteGenerated various test cases to ensure functionality of the program	
Enigma	March 2020
<ul style="list-style-type: none">Programmed using Java and object-oriented programming to simulate encryption technology used in World War II with classes like rotors and ratchetsApplied understanding of polymorphism and inheritance to create digital analogs and allowed optimization on the default machine setup	