

Yu Xi Gui

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EDUCATIONAL BACKGROUND

University of California, Berkeley *Expected Graduation: Spring 2023*
Cumulative GPA: 3.5 Majors: B.A. Computer Science
Relevant Coursework: Efficient Algorithms, Discrete Mathematics and Probability Theory, Operation Systems, Machine Learning, Data Structures, Machine Structures, Structure and Interpretation of Programs, Designing Information Devices and Systems

Bellevue High School, WA *Graduation: May 2019*
Cumulative GPA: 4.0
Awards & Honors: Dr. Michael Riley Memorial Scholarship Award—Academic Excellence, Wolverine Award (400+ volunteer hours), 2nd in Future Beyond Atmosphere Science Competition, AP Scholar with Distinction, Most Improved Basketball Player

SKILLS

Programming Languages
• Java, Python, C, JavaScript, SQL, HTML/CSS, React, React Native, RISC-V Assembly, Scheme, R
Framework and Tools:
• Git, IntelliJ, Eclipse, NumPy, BeautifulSoup, Jupyter Notebook, Expo, Pandas, Matplotlib, Seaborn, Hive

RELEVANT EXPERIENCE

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| Hulu <i>Software Engineer Intern</i> | Los Angeles, CA <i>May 2021 - Present</i> |
| • Managing Hulu user's interaction with content. (complexity is number of user times number of content) • Building distributed service and storage system to support huge volume of Hulu home page read and write traffic. | |
| UC Berkeley EECS Department <i>Data Structures/Computer Architecture Academic Intern</i> | Berkeley, CA <i>January 2021 – May 2021</i> |
| • 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 <i>Project Developer</i> | Berkeley, CA <i>August 2020 - Present</i> |
| • 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 <i>Lead Hacker</i> | Los Angeles, CA <i>June 2020 - Present</i> |
| • 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 <i>Lead Designer</i> | Berkeley, CA <i>August 2019 - December 2019</i> |
| • 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 | |

PROJECTS

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| Graditude | <i>August 2020 - Present</i> |
| • 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 | <i>May 2020</i> |
| • 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 | <i>March 2020</i> |
| • 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 | |