

# Yu Xi Gui

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## EDUCATION

<b>University of California, Berkeley</b> <i>Bachelor of Arts in Computer Science, Data Science</i>	Expected: Spring 2023 GPA: 3.8
<b>Relevant Coursework:</b> Algorithms, Data Structures, Databases, Operation Systems, Machine Learning, Machine Structures, Computer Programs, Information Devices, Discrete Mathematics and Probability Theory, Data Science	

## EXPERIENCE

<b>Hulu</b> <i>Software Engineer Intern</i>	May 2021 – Present Santa Monica, CA
<b>UC Berkeley EECS Department</b> <i>Data Structures and Computer Architecture Academic Intern</i>	January 2021 – May 2021 Berkeley, CA
<b>Convergent at Berkeley</b> <i>Lead Designer</i>	August 2019 - December 2019 Berkeley, CA

**Hulu**  
*Software Engineer Intern*

- Building a full-stack group management service platform from scratch using Java with Spring, iBATIS, and Swagger framework to facilitate the creation and organization of users into different groups
- Implementing RESTful web service APIs and writing object-oriented classes to include efficient queries
- Connecting code with provisioned AWS Aurora database using MySQL and Terraform
- Creating new frontend features to integrate frontend and backend using Material-UI and React

**UC Berkeley EECS Department**  
*Data Structures and Computer Architecture Academic Intern*

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

**Convergent at Berkeley**  
*Lead Designer*

- Designed a pitch deck that includes statistics, monetization plan, and competitive landscape to investors
- Researched and assessed relevant and feasible API libraries that align with app design
- 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

## PROJECTS

<b>Graditude</b>   <i>Python, JavaScript, React, HTML/CSS</i>	August 2020 - Present
<ul style="list-style-type: none"><li>Collected 30+ BSD graduates' responses and used Python to extract relevant data</li><li>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</li></ul>	
<b>Mini Git</b>   <i>Java, Git</i>	May 2020

**Graditude** | *Python, JavaScript, React, HTML/CSS*

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**Mini Git** | *Java, Git*

- 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** | *Java, Git*

- 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

## TECHNICAL SKILLS

<b>Languages:</b> Java, Python, C, JavaScript, SQL, HTML/CSS, Scala, RISC-V Assembly, Scheme, R
<b>Frameworks:</b> Spring, Swagger, Flask, iBATIS
<b>Developer Tools:</b> Git, IntelliJ, MySQL, VS Code, Eclipse, Jupyter Notebook, Maven, AWS, Terraform, Google Cloud, Hive, Google Colab Notebook
<b>Libraries:</b> Pandas, React, Material-UI, NumPy, Matplotlib, Sklearn, Seaborn, TensorFlow