

Yu Xi Gui

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EDUCATION

University of California, Berkeley

Expected: Spring 2023

Bachelor of Arts in Computer Science, Data Science

GPA: 3.8

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

EXPERIENCE

Hulu

May 2021 – August 2021

Software Engineer Intern

Santa Monica, CA

- 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

January 2021 – May 2021

Data Structures and Computer Architecture Academic Intern

Berkeley, CA

- 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

August 2019 - December 2019

Lead Designer

Berkeley, CA

- 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

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

August 2020 - Present

- Collected 30+ BSD graduates’ responses and used Python to extract relevant data
- 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

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

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

TECHNICAL SKILLS

Languages: Java, Python, C, JavaScript, SQL, HTML/CSS, Scala, RISC-V Assembly, Scheme, R

Frameworks: Spring, Swagger, Flask, iBATIS

Developer Tools: Git, IntelliJ, MySQL, VS Code, Eclipse, Jupyter Notebook, Maven, AWS, Terraform, Google Cloud, Hive, Google Colab Notebook

Libraries: Pandas, React, Material-UI, NumPy, Matplotlib, Sklearn, Seaborn, TensorFlow