

Yu Xi Gui

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EDUCATION

University of California, Berkeley

Expected: Spring 2023

Bachelor of Arts in Computer Science, Data Science

Relevant Coursework: Algorithms, Data Structures, Databases, Operation Systems, Security, Artificial Intelligence, Machine Learning, Machine Structures, Linear Algebra, Multivariable Calculus, Computer Programs, Information Devices, Random Processes, Discrete Mathematics and Probability Theory

EXPERIENCE

Disney Streaming

Summer 2022

Incoming Software Engineer Intern

Santa Monica, CA

Hulu

May 2021 – August 2021

Software Engineer Intern

Santa Monica, CA

- Developed, tested, deployed 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
- Implemented RESTful web service APIs and wrote object-oriented classes to include efficient queries
- Optimized SQL queries, which improved website responsiveness and reduced the database costs by 30%
- Connected code with provisioned AWS Aurora database using MySQL and Terraform
- Integrated frontend and backend with REST APIs for user and group data

UC Berkeley EECS Department

September 2021 – December 2021

Designing Information Devices and Systems II Tutor

Berkeley, CA

- Helped answering questions and teaching topics in weekly discussions sections for EECS 16B: Designing Information Devices and Systems II
- Contributed to discussion worksheets, notes, and exam grading for course topics like signal processing, circuits, controls, introductory machine learning, Python

Convergent at Berkeley

August 2019 - December 2019

Lead Designer

Berkeley, CA

- Designed a pitch deck that includes statistics, monetization plan, and competitive landscape to Skydeck
- Researched and assessed relevant and feasible APIs 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

Personal Portfolio Website | *JavaScript, React, Material-UI, React Hook Form, CSS*

December 2021

- Developed a minimalistic personal portfolio website to enhance personal brand
- Improved UX by creating a switch that toggles the site between dark and light mode

Mini Git | *Java, Git*

May 2020

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

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, Docker, Maven, AWS, Terraform, Google Cloud, Hive, Google Colab Notebook

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