

Yu Xi Gui

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EDUCATIONAL BACKGROUND

University of California, Berkeley

Expected Graduation: Spring 2022

Cumulative GPA: 3.8 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

UC Berkeley EECS Department

Berkeley, CA

Data Structures/Computer Architecture Academic Intern

January 2020 - Present

- Help 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

- 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

Los Angeles, CA

Lead Hacker

June 2020 - Present

- 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

Berkeley, CA

Lead Designer

August 2019 - December 2019

- 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 at Skydeck

PROJECTS

Gratitude

August 2020 -Present

- 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

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

Learning Enabled Voice Controlled Robotic Car

April 2020

- Incorporated Mic Front End and Signal Processing, Natural Language and Data Processing, Processing Integration, Controls
- Designed various circuits and classifiers and included features that allow the car to control speed using loudness

Enigma

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