

Shirley Xiao

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EDUCATION

University of California, Berkeley

Berkeley, CA

Candidate for Bachelor of Arts in Computer Science

August 2019 – May 2023

- **Highlighted coursework:** The Structure and Interpretation of Computer Programs, Designing Information Devices and Systems I, Data Structures and Algorithms, Linear Algebra and Differential Equations, Discrete Mathematics and Probability Theory, Efficient Algorithms and Intractable Problems, Great Ideas in Computer Architecture (Machine Structures)

WORK EXPERIENCE

UrsaTech

Berkeley, CA

Project Developer

September 2020 – Present

- Collaborating with the Associated Students of the University of California (Senator Shah's Tech Accessibility Department) to compile and analyze data of current statistics of students majoring in engineering/STEM.

BARE Magazine

Berkeley, CA

Web Designer

September 2020 – Present

- Implemented web app feature to automatically forward posted articles to Facebook/Twitter.
- Redesigning the magazine website to align with 2020-2021 brand commandments.

FEMTech

Berkeley, CA

Web Intern

September 2020 – Present

- Restructuring website by translating concepts into user flows for a more intuitive user experience. Adding new features to site through strategic planning, after prototyping and user-testing.

PROJECTS

Zendesk Ticket Viewer

Personal project

November 2020

- Built command line interface and browser-based applications to display information about support tickets from a Zendesk account, using NodeJS with the Express framework, and the Zendesk API.

ChumBot

Personal project

October 2020

- A Discord bot to facilitate group matchings and Zoom meeting scheduling based on members' common interests and available times, according to user input. Built using DiscordJS and deployed with AWS onto the UC Berkeley Ascend Discord server.

Two-Stage Pipelined RISC-V Processor

Academic project

October 2020

- Built a two-stage RISC-V (RV32) pipeline processor on Logisim. Focused on finite state machines and CPU control logic.

Gitlet

Academic project

April 2020

- A Java-based version-control system for local directories based on the basic features of Git, with command features such as merge, checkout, commits.

Enigma

Academic project

March 2020

- A program emulating the German Enigma machines of WWII to encrypt military communications by configuring permutations and ciphers. Focused on data structures and object-based programming in Java.

Scheme

Academic project

November 2019

- An interpreter for the Scheme programming language using Python. Focused on iteration and recursion, and utilized lexical and syntactic analysis as well as input parsing.

SKILLS

Languages: Python, Java, JavaScript, C, HTML5, CSS3

Technologies: ReactJS, NodeJS, Adobe Illustrator, InDesign, Photoshop

EXTRACURRICULAR ACTIVITIES

- Co-moderated *150 Years of Women at Berkeley* Panel to celebrate inclusivity of women in the tech industry. Interviewed professionals about their experience in their respective fields.
- Co-hosted Ascend Berkeley technology speaker forum with professionals specializing in fintech for 60+ attendees.
- Designed graphics for IEEE Berkeley social media platforms for event promotion and outreach.
- Directed courses in graphic design, branding, and copywriting at Herff Jones Yearbooks@theBeach (held at California State University, Long Beach), an intensive journalism and design conference with 400+ attendees.