

# ESTHER SHIN

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## EDUCATION

### University of California, Berkeley

Aug 2018 - May 2022

- Bachelor of Science, Electrical Engineering and Computer Science
- Berkeley Certificate in Design Innovation

**Awards/Honors:** Facebook ABCS Scholar; Gates Scholar; Rewriting the Code Member; Disney Be Inspired Grant

**Relevant Coursework:** Algorithms, Data Structures, Machine Structures, Cloud Computing and SaaS, Designing Information Devices and Systems, Web Design, Discrete Mathematics and Probability Theory, Prototyping and Fabrication

## EXPERIENCE

### AXS | Los Angeles, CA

Summer 2020 (Cancelled due to COVID-19)

*Software Engineer Intern*

### Convergent | Berkeley, CA

Jan 2020 - Present

*Build Team Developer*

- Collaborating in a team of 5 to build React Native MVP; collected 122 user market survey reviews
- Designed high-fidelity Figma prototype, pitching to 3 venture capitalists and landing exclusive mentorship

### HackDavis 2020 | Davis, CA

Jan 2020

*Hacker*

- Programmed a course planner web platform in HTML, CSS, and JavaScript with interactive search and graph diagram features, including sorting by major and prerequisites
- Designed 2 graphics and logo to advertise platform in Adobe Illustrator
- Used Python and Neo3j to web scrape data for 150 undergraduate majors from university websites

## PROJECTS

### InTune

May 2020

- Worked with a team of 3 to build iOS app that creates a compatibility score for 2 spotify users based on their data
- Utilized Spotify SDK and Cloud Firestore to set up application, with support for networking and persistency

### Gitlet

Dec 2019

- Engineered a command-line version-control system, implementing 13 fundamental features of Git
- Assembled in Java using Secure Hash Algorithm 1 (SHA-1) and Tree/Graph Structure

### Enigma Machine

Oct 2019

- Developed a Java WWII Enigma simulator, a sophisticated progressive substitution cipher, for the command line
- Created 15 extensive unit tests and applied integration testing for up to 80% of code coverage

### Yelp Map

Feb 2019

- Processed Yelp dataset (130+ data points) to construct interactive restaurant ratings map in Python
- Built a segmented visualization of Berkeley with a Voroni diagram using machine learning practices

## LEADERSHIP

### Society of Women Engineers | Berkeley, CA

Aug 2019 - Present

*Webmaster | Public Relations Chair*

- Manage and add new features to UC Berkeley SWE section Piazza page and website, used by over 150 monthly users
- Built a BuzzFeed-style interactive quiz in JavaScript, promoting recruitment applications
- Launched 15 weekly email newsletters on MailChimp sent to over 1,100 students
- Led a PR committee of 4 mentees with bi-weekly meetings, socials, and Adobe Illustrator workshops

### UC Berkeley EECS Department | Berkeley, CA

Jan 2019 - Dec 2019

*Undergraduate Lab Assistant*

- Instructed roughly 35 students over 19 weekly labs on abstraction, recursion, time complexity, and concurrency

## SKILLS

**Programming Languages:** Java, Python, C, Go, HTML, CSS, JavaScript, Swift, SQL, Scheme

**Technical:** Git, Linux, RISC-V, Firebase, Bootstrap, Adobe Illustrator, Photoshop, XD, Figma