

ESTHER Y. SHIN

(213) 999-1940 • esthershiin@berkeley.edu • linkedin.com/in/esther-yj-shin • esthershin.me

EDUCATION

University of California, Berkeley

August 2018 - May 2022 (Expected)

- 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 (Concurrent), Data Structures, Machine Structures (Concurrent), Cloud Computing and SaaS (Concurrent), 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

January 2020 - Present

Build Team Software Engineer

- Developing PillaRx, a marketable mobile app which helps users find insurance-based drug alternatives
- Fleshed out prototype on Figma and created business model to pitch to venture capital investors

HackDavis 2020 | Davis, CA

January 2020

Hacker

- Programmed a web platform called BearTracks that helps students sort major requirements and prerequisites
- Front-End: HTML, CSS, and Javascript to create website and Adobe Illustrator to create graphics
- Back-End: Python Web Scraping, Neo4j, and Graph Theory to gather/organize data from university websites

PROJECTS

InTune

May 2020

- Created an iOS application where two Spotify users can get a compatibility score based on their listening history
- Implemented using a Spotify SDK to access information and perform networking
- Organized user data in JSON structure and stored in Cloud Firestore for app persistency

Gitlet

December 2019

- Engineered a terminal-based, version-control system that mimics fundamental features of Git
- Constructed in Java using Secure Hash Algorithm 1 (SHA-1) and Tree/Graph Structure

Enigma Machine

October 2019

- Developed a WWII enigma simulator, a sophisticated progressive substitution cipher, in Java that takes input configurations and messages from the command line
- Applied various unit and integration testing for debugging and deployment purposes

Yelp Map

February 2019

- Utilized Yelp academic dataset to construct an interactive map of restaurant ratings in Python
- Built a visualization of segmented regions of Berkeley from a Voronoi diagram using machine learning practices

LEADERSHIP

Society of Women Engineers | Berkeley, CA

August 2019 - Present

Webmaster / Public Relations Chair

- Manage UC Berkeley SWE section Piazza page and website using HTML, CSS, JavaScript, and Bootstrap elements
- Constructed a BuzzFeed-style interactive quiz in JavaScript that outputs match results depending on user choices
- Launched weekly email newsletters on MailChimp and designed event covers and promotional stickers
- Led a PR committee of 4 mentees with bi-weekly meetings, socials, and Adobe Illustrator workshops

UC Berkeley EECS Department | Berkeley, CA

January 2019 - December 2019

Undergraduate Lab Assistant

- Taught topics of abstraction, recursion, algorithmic complexity, and concurrency in Python to Berkeley students

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