

# ESTHER SHIN

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## EDUCATION

### University of California, Berkeley

Aug 2018 - May 2022

GPA: 3.7/4.0

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

**Awards/Honors:** Gates Scholar; Meta ABCS Scholar; Rewriting the Code Member

**Relevant Coursework:** Algorithms, Data Structures, Computer Security, Databases, Artificial Intelligence, Machine Structures, User Interface, Cloud Computing and SaaS, Full Stack Web Development, iOS Development, Discrete Mathematics and Probability Theory, Information Systems, Industrial Design and Human Factors, Creative Programming and Electronics, Prototyping and Fabrication, 3D Modeling

## EXPERIENCE

### Splunk | San Francisco, CA

Sept 2022 - Present

#### Software Engineer

- Developing a REST API schema service for a centralized test reporting tool built on Kubernetes, RDS, Cassandra
- Automated service cleanups with Python script and scheduled GitLab pipeline
- Set up monitoring systems and escalation policies for uptime, latency, and health of internal QA services

### Splunk | Remote

May 2021 - Sept 2021

#### Software Engineer in Test Intern

- Created a searchable test report dashboard based on ingested Jenkins build data with drill down features
- Built GitLab CI pipelines to build, deploy, and monitor automated tests for product support applications

## PROJECTS

### Dino-soar

May 2022

- Created a web game that uses machine learning and p5.js for motion-based controls and customization

### RookieDB

Jan 2021

- Developed a database system with support for B+ tree indices, efficient join algorithms, query optimization, multi-granularity locking, and database recovery
- Implemented in Java with unit testing for up to 90% code coverage

### InTune

May 2020

- Worked in a team of 3 to build an iOS app that creates musical compatibility scores for 2 Spotify users
- Utilized Spotify SDK and Cloud Firestore to set up application, with support for networking and persistency

### BearTrack (HackDavis 2020)

Jan 2020

- Programmed a course planner tool in HTML, CSS, and JavaScript with interactive search and graph diagram features, including sorting by major and prerequisites
- Used Python and Neo4j to web scrape and organize data for 150 majors from university webpages

## LEADERSHIP

### Society of Women Engineers | Berkeley, CA

Aug 2019 - May 2022

#### Webmaster

- Managed the UC Berkeley SWE section community forum and [website](#), used by up to 150 monthly users
- Led a committee of 3 mentees with bi-weekly meetings, socials, and technical development 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:** Python, Go, Java, C, HTML, CSS, JavaScript, YAML, Bash, Swift, Scheme, RISC-V, SQL, SPL

**Technical:** Git, Agile, CI/CD, Spark, Kubernetes, Docker, Firebase, Bootstrap, Arduino, Fusion360, Figma