

ESTHER SHIN

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EXPERIENCE

Splunk | San Francisco, CA

Sept 2022 - Feb 2023

Software Engineer

- Developed and designed an internal schema service tool to consolidate, analyze, and report test data across multiple teams, testing services, frameworks, and abstractions into a single unified view
- System includes Golang REST API server, Python, Docker orchestrator, GitLab Native CI, AWS Cassandra, AWS RDS, AWS S3, and Kubernetes
- Set up monitoring systems and escalation policies for uptime, latency, and health of internal and external test services such as TestRail, Cypress.io, and Sauce Labs

Splunk | Remote

May 2021 - Sept 2021

Software Engineer in Test Intern

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

EDUCATION

University of California, Berkeley

Aug 2018 - May 2022

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

GPA: 3.7/4.0

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

PROJECTS

Dino-soar

May 2022

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

Regulus

Apr 2021

- Designed a file storing and sharing system using cryptographic practices to protect against malicious users in Go
- Applied Public Key Encryptions, Digital Signatures, HMACs, HKDFs, and Symmetric Encryption procedures

RookieDB

Jan 2021

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

BearTrack (HackDavis 2020)

Jan 2020

- Created a course planner tool in HTML, CSS, and JavaScript with interactive search and graph diagram features
- 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, Kubernetes, Docker, Firebase, Bootstrap, Spark, Figma, Arduino, Fusion360