

# ESTHER SHIN

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## WORK EXPERIENCE

**Splunk** | San Francisco, CA

Sept 2022 - Mar 2024

*Software Engineer*

Team: Platform Identity

- Authored engineering requirements documentations and led a cross-team, collaborative project team of 3 engineers to integrate Duo Multi-factor authentication used by over 480 customers,
- Migrated and deprecated dependency component within our identity system, saving the business \$216k/yr. in infrastructure costs and more in operational efficiency
- Developing and maintaining various identity services, leveraging industry standards like OAuth, OIDC, SCIM, and SAML and various tech stacks like Go, C++, Python, and Bash to keep customer data secure and accessible
- Actively participating in on-call duties involving diagnosing and resolving various customer issues to meet SLOs

Team: Developer Services

- Developed and designed an internal REST API service tool to ingest, parse, and report test data across multiple teams, testing services, frameworks, and abstractions into a single unified view
- System includes Golang schema server, Python, Docker orchestrator, GitLab Native CI, AWS Cassandra, AWS RDS, AWS S3, and Kubernetes
- Refactored a large, legacy codebase to increase readability, optimize process runtimes, and eliminate tech debt
- Resolved server latency issues by automating database cleanups with scheduled pipelines and Python script
- Implemented and maintained monitoring systems and on-call 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-downs in SPL and JavaScript
- Built GitLab CI pipelines to build, deploy, and monitor automated tests for product support applications

## 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
- Gates Scholar Cohort 1

## 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

- Engineered a file storing and sharing system using cryptography to protect against malicious users in Golang
- 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
- Constructed in Java with unit testing for up to 90% code coverage

## LEADERSHIP

**Society of Women Engineers** | Berkeley, CA

Aug 2019 - May 2022

*Webmaster*

- Managed the community forum and website, adding new features with HTML, CSS, JavaScript, and Bootstrap
- Led a committee of mentees with bi-weekly meetings, socials, and technical development workshops

## SKILLS

**Programming Languages:** Python, Go, Java, C, C++, HTML, CSS, JavaScript, Bash, RISC-V, SQL, SPL

**Technical:** Git, GDB, AWS, Kubernetes, Docker, Firebase, React, Bootstrap, Spark, Grafana, Figma, Arduino