ESTHER SHIN

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WORK EXPERIENCE

Splunk | San Francisco, CA   Sept 2022 - Present
Software Engineer
Team: Platform Identity
- Leading a cross-team, collaborative project team of 3 engineers to integrate Duo Multi-factor authentication
- Authored engineering requirements documentations and hosted review sessions for project design proposal
- 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
- Bachelor of Science, Electrical Engineering and Computer Science   GPA: 3.7/4.0
- 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