

Awards and Certifications

Ping Identity Excellence Award | Capital One TechX Finalist | UC Berkeley Fung Alumni Award
Master of Engineering | Ping Identity Certified Professional – Ping Federate | CompTIA Security+

Technical Skills

API Design | Cost Analysis | Relational Data Modeling | Statistical Data Modeling | Optimization Analytics | Enterprise Identity
Build Tooling | Automated Quality Assurance | Automated Deployments | Cloud | Data Engineering | Access Control
Airflow | BigQuery | Splunk | Docker | Looker | Grafana | PingFederate | Okta | Github
TLS/mTLS | HTTP/S | Tunneling/Proxy | SOAP | OAuth2 | OpenID Connect | SAML | SCIM | SCEP | FIDO2
Java | JavaScript/TypeScript | Python | Golang | LookML

Experience

Etsy

Sept 2024 – Present | San Francisco | Full Time

Senior Security and Software Engineer

Enterprise Security and Access Management

- ⊕ Implemented operational device trust program for over 2000 Mac OS and Windows devices in workforce fleet.
- ⊕ Designed and implemented a data pipeline for admin access usage, resulting in 10% of permissions being revoked.
- ⊕ Designed and implemented a data pipeline for Okta System Logs, resulting in data-driven insights for 3 projects.
- ⊕ Developed automated process for compliance tooling, saving hundreds of thousands of dollars in labor costs.

Lively, Inc.

May 2022 – Sept 2024 | San Francisco | Full Time

Software Engineer

Backend, Platform, and Integrations

- ⊕ Implemented backend APIs for mobile, resulting in 4.9 stars at over 4500 ratings, an industry leading achievement.
- ⊕ Collaborated with product marketing team to deliver affiliate partnerships for B2B referrals using Impact Radius.
- ⊕ Under emergency conditions, implemented a simple detection algorithm which saved thousands of dollars of daily.
- ⊕ Enhanced confidentiality and integrity of third party integrations using SAML, SFTP, and tunneling HTTPS/mTLS.
- ⊕ Drove foundational software engineering advancements, elevating culture, cohesion and operational excellence.

Fannie Mae

Jan 2022 – May 2022 | Reston, VA | Full Time

Software Engineer

Mortgage Commitment and Delivery

- ⊕ Implemented enterprise-scale, event-driven software integrations across multiple Java and Angular applications.
- ⊕ Drove enterprise integration through Gradle configuration features for repository management (Nexus).

Capital One

Feb 2019 – Jan 2022 | McLean, VA | Full Time

Software Engineer → Senior Software Engineer

Workforce Authentication (SSO) and Machine Learning as a Service

- ⊕ In under a year, orchestrated an award-winning, cloud-native deployment of PingFederate, serving over 1000 clients.

- ⊕ Spearheaded an exploratory StrongKey FIDO2 Server (SKFS) deployment for passwordless authentication.
- ⊕ Reduced workforce SSO cost by 90%, maintaining security standards, seamless user experiences, and enterprise scale.
- ⊕ Fostered collaboration and teamwork focused on key business and technical topics.
- ⊕ Implemented cutting-edge capabilities for Capital One's internal machine learning platform.

Education

UC Berkeley

Master of Engineering, Industrial Engineering and Operations Research

Jun 2017 – Jun 2018 | Berkeley, CA | Full Time

UC Santa Barbara

Bachelor of Science, Statistical Science

Jun 2014 – Jun 2016 | Santa Barbara, CA | Full Time