Michael Metcalf

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Security Engineer with 9+ years experience in corporate identity and access management programs. Primarily interested in designing, implementing and operating IAM tooling and services.

Currently at Citadel, building identity infrastructure for quantitative researchers and engineering teams alike.

Work Experience

2022 - Present Citadel LLC

Senior Security Engineer

Drove continued adoption of Hashicorp Vault for static and dynamic secrets management across the firm's broad compute footprint.

Designed and implemented Configuration and Policy as Code for Hashicorp Vault

Contributed to Github Enterprise Configuration as Code Terraform project.

Designed and implemented short-lived privileged access management to Linux hosts

Designed and implemented an on-prem to Google Cloud Identity bridge backed by Vault OIDC

Vendor Security Reviews & Line of business application/cloud security oversight.

Contributed to an identity provider migration

2017 - 2022 Riot Games 7

2020 - 2022 Security Engineer - Information Security

Tech lead the org-wide identity provider migration. Resulted in 700+ services migrated within a year

Wrote large-scale terraform projects (providers & modules) to support various IAM operations

Contributed to refactoring AWS tooling used across the engineering order

Implemented serverless event-based logging pipelines for all systems in the IAM stack

Vendor/internal security reviews

Continued discovery in BeyondCorp Access Proxies for employee use

2018 - 2020 Systems Administrator - Information Security

Published internal RFC for identity federation criteria, lead the vendor evaluation and presented findings to security leadership

Designed and implemented a RESTful API for LDAP user and group management in Go

Integrated corporate AuthZ into player-facing AuthZ to grant access to R&D assets for internal Rioters and contractors

Implemented a BeyondCorp Access Proxy proof of concept for intranet sites via Duo Network Gateway

Wrote ETLs for various IAM functions/authorization automations $\label{eq:constraint} % \[\frac{1}{2} \left(\frac{1}{2} \right) + \frac{1}{2} \left($

Designed and implemented geo/org based authorization pipeline as a compensating GDPR control for all production facing servers to consume

Organized team's codebase and documentation structure

Contributed in disaster recovery, incident response, and internal threat scenarios

2017 - 2018 Systems Administrator - Information Technology

Defined standards, administrate and document the corporate Identity Provider - Onelogin

Assisted internal teams in defining their AuthN/Z tech stack and authorization models against given business requirement

Managed vendor relationships for SSO, user lifecycle management, and overall security auditing

Core contributor to the Rioter/Vendor onboarding pipeline

2015 - 2017 Broadcom -

Desktop Support Services Engineer - Information Technology

Managed/Resolved high volumes of emergent operational tickets while maintaining stringent team SLA

Supported company-wide AD Domain migration and Email migration from Exchange to Google Apps

 $Wrote \ knowledge \ base \ articles \ for \ DSS \ L1-L3 \ teams \ (Pertaining \ to \ SAP, PGP, \ and \ Cisco/telecom)$

Wrote macOS software deployment packages and scripts for JAMF

Managed enterprise apps

2014 - 2015 AIT Management

Systems Administrator & Trainer

Rebuilt and maintained corporate LDAP Directory Services and Identity Provider

Administrated enterprise apps and MDM Program

Built employee onboarding and IT utility automations

Wrote and maintained technical/operational documentation

Maintained network infrastructure across 45+ office sites

Taught new hire training and onboarding

Education

2016-2017, 2020 Irvine Valley College

My academic history reflects the seasons in life where I have wanted to learn more, even if occupationally it was less relevant. My end goal is to earn a BS in Computer Science.

Skills

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