




Andrew J. Krug

Head of Security Advocacy | Cloud Security Expert | Technical Leader

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Professional Summary

Accomplished security leader with 10+ years of experience in cloud security, identity management, and technical advocacy. Currently serving as Head of Security Advocacy at Datadog, building research programs and fostering developer communities. Proven track record of architecting secure cloud solutions, leading engineering teams, and speaking at major industry conferences including BlackHat and AWS re:Invent.

Core Competencies

Cloud & Security: AWS Cloud Architecture • Google Cloud Platform • Identity & Access Management • Cloud Security • Serverless (AWS Lambda) • Risk Analysis • Digital Forensics • Incident Response

Technical: Python • Rust • Kubernetes • DynamoDB • Kinesis • DevSecOps • Infrastructure as Code • Security Automation • Threat Modeling

Leadership: Engineering Management • Product Management • Technical Evangelism • Open Source Strategy • Team Building • Strategic Planning

Professional Experience

Head of Security Advocacy | Datadog | August 2020 - Present

Engineering Manager - Developer Relations & Research

- Built and lead SecurityLabs brand from ground up, reaching **80,000+ unique readers per quarter**
- Create and deliver presentations, workshops, and training materials for global developer community
- Partner with product engineering teams to develop compelling security demonstrations and use cases
- Collaborate with open-source contributors to expand Datadog's integration ecosystem
- Represent Datadog at major industry conferences as thought leader in DevOps and observability

Impact: Established Datadog as a recognized authority in security observability space

Principal Security Engineer | Vacasa | January 2020 - August 2020

Cloud Security & Architecture Lead

- Directed comprehensive security strategy for AWS cloud environment during company's rapid growth
- Led interim DevSecOps engineering team through COVID-19 response and cost optimization initiatives
- Performed threat modeling, risk assessments, and architecture reviews for critical systems
- Developed custom security automation tools and governance standards

Key Innovations:

- **Blockabot:** Universal blocklist pipeline for threat intelligence
- **Continuous Auditing Capability:** Real-time security monitoring system

Staff Security Engineer | Mozilla | August 2018 - January 2020

Open Source Security & Product Management

- Led Mozilla's Open Source Security Software Brand initiative
- Managed Mozilla Enterprise Defense Platform product roadmap
- Architected security solutions for Mozilla's multi-cloud strategy (AWS/GCP)
- Developed internal security tooling in Python and Rust
- Reported security KPIs to senior leadership and board

Product Portfolio:

- Mozilla Defense Platform • GuardDuty Multi Account Manager • PyKMSSig
- AWS Cross Account Output Service • Mozilla AWS Federated Access CLI

Senior Security Engineer | Mozilla | February 2017 - August 2018

Identity & Access Management

- Designed and developed Identity and Access Management stack serving **100,000+ contributors**
- Built secure APIs using AWS Lambda, Kinesis, and DynamoDB
- Performed digital forensics and incident response for AWS cloud infrastructure
- Participated in red team exercises and security control design

Senior Software Engineer | Symantec | August 2015 - January 2017

Security Education & Platform Development

- Architected gamified cybersecurity education platforms following BlackFin Security acquisition
 - Designed capture-the-flag challenges for diverse skill levels and learning outcomes
 - Contributed to Cyber Skills Platform and ThreatForge development
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Education & Certifications

Bachelor of Science, Computer Science | Southern Oregon University

Specialization: Computer Security & Information Assurance

Red Hat Certified System Administrator (RHCSA) v7 | *Recertified 2014*

Speaking & Community Leadership

Conference Speaking:

- BlackHat USA Speaker (2x) • AWS re:Invent Speaker (9x) • BSides Speaker (10x)
- re:Inforce Speaker (3x) • Cloud Native Security Day Speaker (2x)

Educational Impact:

- **"Securing the Cloud Foundations"** - Created and delivered comprehensive online and in-person learning course
- Trained **thousands of cloud practitioners** on cloud security best practices and implementation
- Course covers practical security controls, threat modeling, and real-world cloud hardening techniques

Program Leadership:

- CNCF Security Technical Advisory Group (STAG) Program Committee
 - Wild West Hackin' Fest Program Committee Chair
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Personal Interests

Classical saxophonist performing in ensemble groups • Equestrian enthusiast with two horses for trail riding and timed events • Advocate for integrating arts into technical education

References and detailed project portfolio available upon request