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Jan 2021 - Present

Technologies and Languages

Languages: Python, Ruby, Ruby on Rails, Botmaker (Java/Scala Hybrid)

Technologies: MySQL, Postgres, GCP, Big Query, Looker ML, Tableau, Kafka, SOAR, Splunk, IAM, Git, CI/CD
 Other: CISSP, GDPR, Anomaly and Intrusion Detection (Insider Threat, Internal Abuse), Threat Modeling

Work Experience

Senior Security Engineering Manager Twitter

Data Misuse Detection (1 EM, 7 ICs) Durham, NC (Remote)

- Designed and deployed scalable detection platform using the latest technologies of **SOAR**, **Splunk**, **Kubeflow**, **GCP**, **Dataflow**, **Big Query**, and **Looker ML** that normalized, processed, and actioned 100M+ events/month
- Led development of several end-to-end advanced detectors using unsupervised ml techniques (e.g., autoencoder, anomaly detection, clustering), automation, data-driven decorators, and custom dashboards to identify and action abuse on internal systems, social engineering, and Twitter verification; meaningful detections reduced human hours in the loop by more than 300%
- Automated from the ground up rule-based detection platform written in custom Botmaker language
 (Java/Scala hybrid) with novel new features: stateful events support, Kafka streaming events, and expanded
 detection coverage with unique capabilities: direct message access abuse and failed access attempts
- Directed company-wide **Privileged Access** Detection Workstream to regain trust post-2020 data breach by addressing **monitoring, and investigation** gaps for sensitive customer data access through internal admin tools

Senior Security Engineer (team lead) Twitter Mar 2018 – Jan 2021

Detection and Response Team Durham, NC (Remote)

- Led five critical severity company-wide **security incidents** and provided technical direction, coaching, and career advice to detection and response members; as a team lead, grew the organization from two to fifteen
- Automated custom Incident Response platform using **Google, Jira, and Slack APIs** (Docs templates, Calendar, messaging, ticket automation), saving 50+ engineering hours and embarrassing mistakes in manual tasks
- Drove GDPR and FTC incident response regulatory readiness; full compliance with all audits and requirements

Security Engineer Microsoft 2012 –2018

Office 365 Security Seattle, WA

- Led multi-quarter project to move dedicated email hosting workload into Azure **Cosmos DB** based security analytics platform; reduced time to detect advanced threats by 19.5%
- Enriched signal data by integrating interflow's **threat intelligence** platform's telemetry; facilitated correlation of security events and early detection capabilities across office properties: Exchange, Lync, Skype, Yammer, Teams
- Developed internal tools in **Python** and **PowerShell** to improve investigations and data acquisition
- XFN team member for tracking Russian-speaking determined human actors; led targeted breach investigations

Cyber Security U.S. Air Force 2000- 2007

Multiple Locations

Optimized software and infrastructure vulnerability and risk assessments using Nessus, and Nmap tooling

Education

• **B.Sc. Computer Science,** University of Illinois at Champaign-Urbana