

Andrew Vagliano

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afv22  |  andrew-vagliano

SKILLS

Languages	Python PHP/Hack Javascript Haskell Rust SQL
Technologies	React GraphQL Cloud Development Dataswarm / Airflow AWS
Areas of Expertise	Data Engineering AI Solutions Full-Stack Engineering Data Analysis Threat Intelligence
Personal Interests	Motorsports Jazz & Bluegrass Guitar College Football Food & Cooking

EXPERIENCE

Meta Platforms, Inc.

Sep 2021 - Sep 2024

Security Engineer, Integrity Investigations & Intelligence (i3)

Washington, DC

- Served as the engineering expert on intelligence teams across multiple problem spaces, rapidly prototyping bespoke tools, identifying and standardizing cross-team solutions, and representing investigator needs to external engineering teams to ensure scalable, problem-specific outcomes.
- Designed and deployed a scalable signal-based system to identify and escalate malicious actors, coordinating with SMEs, engineering, legal, policy, and investigative teams to ensure high precision and recall; defined performance metrics, established infrastructure for decision-making and accountability, and influenced the system's adoption across other problem spaces.
- Developed AI system to detect and modify egregious content to minimize psychological impact on content moderators, improving employee retention and review speed; led cross-functional collaboration with design, legal, and product teams to align on requirements, execution, and deployment.
- Defined analytical requirements and collaborated with our human reviewer operations team to design a testing procedure for identifying miscalibration in an updated sexual exploitation policy; conducted statistical analysis of results, delivering insights to refine policy wording and improve precision.
- Migrated file processing system for critical actor tracking pipelines to modern infrastructure, improving performance and interoperability with investigative tooling.
- Triaged and resolved technical incidents and reputational escalations across an ecosystem of hundreds of legacy data pipelines, tools, and systems, balancing rapid fixes with long-term systemic solutions.
- Mentored new hires as an onboarding lead, curating tasks and projects to guide their understanding of internal workflows and tooling while facilitating connections with key teams; conducted coding interviews to evaluate applicants and promote team growth.

Meta Platforms, Inc.

Summer 2020

Security Engineer Intern, Threat Discovery

Remote

- Developed a novel application of a generic account clustering system to identify and classify decentralized conspiracy networks, driving one of the largest takedowns of a dangerous conspiracy movement in the company's history.
- Designed and implemented integrations with vendors and OSINT data sources, enhancing internal tooling to improve situational awareness and off-platform coverage for investigations; collaborated with vendor-management teams to secure data access.

American University

Summer 2019

Summer Research Assistant

Washington, DC

- Designed and implemented the development pipeline for an ML model leveraging NLP techniques to predict and identify malicious sequences of system calls in continuous network traffic, addressing the challenge of unstructured and variable call patterns.

EDUCATION

Northwestern University, McCormick School of Engineering

2017 - 2021

Computer Science, B.S. | Minor in International Studies | Pi Kappa Alpha Fraternity

Evanston, IL

The Hotchkiss School

2013 - 2017

Secondary School Diploma

Lakeville, CT

PUBLICATIONS

Feature Extraction Based on Word Embedding Models for Intrusion Detection in Network Traffic

2020

Journal of Surveillance, Security, and Safety