Andrew VAGLIANO

andrew.vagliano1@gmail.com | Washington, DC | +1 860-806-3910
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SUMMARY

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SKILLS

Languages	Python	PHP/Hack	Javascript / Typescript	Haskell	Rust	SQL
Technologies	React	GraphQL	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	CTFs

EXPERIENCE

Meta Platforms, Inc. — Sep 2021 - Sep 2024
Security Engineer, Integrity Investigations & Intelligence (i3) — *Washington, DC*

- Served as engineering lead on trust & safety intelligence teams across multiple problem spaces; prototyped tools, standardized workflows across teams, and advocated investigator needs to external engineering teams for scaled solutions.
- Created a signal-based system to define and identity malicious behavior; coordinated SME alignment, defined performance metrics with policy teams, built infrastructure to aggregate technical and manual decisions, and managed deployment to scaled human review teams.
- Developed an 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, product, and review operations 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 by curating onboarding tasks and 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*

- Adapted an account clustering system to surface and classify decentralized conspiracy networks, enabling one of the company's then-largest takedowns of a dangerous conspiracy movement.
- Integrated OSINT sources and vendor data with internal tooling to improve situational awareness and off-platform investigative coverage; collaborated with vendor-management teams to secure data access.

American University — Summer 2019
Summer Research Assistant — *Washington, DC*

- Developed an ML pipeline for a 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. | International Studies Minor | 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