# Andrew VAGLIANO

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## SUMMARY

Security software engineer with 3+ years of experience analyzing and mitigating highly sophisticated threats to global-scale networks. Seeking to leverage threat intelligence expertise and technical skills in cybersecurity roles. Skilled at designing user-centric security solutions and bridging technical and non-technical expertise.

## SKILLS

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| **Languages** | Python \| PHP / Hack \| Javascript / Typescript \| Haskell \| Rust \| SQL |
| **Technologies** | React \| GraphQL \| Dataswarm / Airflow \| AWS \| Cloudflare \| Docker \| Kali Linux |
| **Areas of Expertise** | Data Engineering \| Threat Modeling \| AI Solutions \| Full-Stack Engineering \| Data Analysis |
| **Personal Interests** | Motorsports \| Home Automation & Self-Hosting \| Jazz & Bluegrass Guitar \| College Football |

## EXPERIENCE

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

- Led engineering efforts for trust & safety intelligence teams; prototyped tools, standardized analyst workflows, and advocated for investigator needs to influence scaled solutions.
- Architected end-to-end system to combat sex trafficking by translating expert knowledge into structured decision trees; built development and testing interface; implemented human review and escalation infrastructure; process and tooling were adopted by all high-priority problem spaces to monitor performance of scaled ML models.
- Developed an AI system to modify severe content, reducing psychological impact on content moderators, improving retention and review speed; led cross-functional collaboration from UX research through launch.
- Designed and executed testing procedure to identify community standards policy miscalibration and moderator bias; conducted statistical analysis to refine policy wording and improve precision, enabling global launch.
- 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 through curated onboarding tasks and partner connections; conducted technical interviews to evaluate candidates.

**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 off-platform investigative coverage.

**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.

## NOTABLE PROJECTS

**Personal Zero-Trust Environment** — February 2025

- Established a comprehensive zero-trust architecture using Cloudflare to enhance personal digital security.
- Deployed DNS filtering and encrypted tunneling to reduce online tracking and prevent MITM attacks.
- Configured secure remote access to services hosted on AWS and a private server, preventing unprivileged access.

**Venture Capital Matchmaker** — March 2025

- Developed an automated matching platform for a non-profit using Airtable and custom scripts to connect venture investors with relevant early-stage startups and generate personalized emails for each stakeholder.
- Eliminated manual workload, accelerating time-to-investment by improving discovery speed and match quality.

## 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

## PUBLICATIONS

**Feature Extraction Based on Word Embedding Models for Intrusion Detection in Network Traffic** — 2020
*Journal of Surveillance, Security, and Safety*