Yacin Nadji, Ph.D.

Technical Skills

    Programming Languages: Python, Zeek, Go, Scala, R, Clojure, Java

    Software and Techniques: (Large) Data Analysis, Machine Learning, Spark, Security, *nix, LaTeX

    Code: https://github.com/ynadji

    Languages: English (Native), Español (Intermediate)

Experience

    Corelight—San Francisco, CA Senior Security Researcher: 2022–present, Security Researcher: 2019–2022

- Designed and implemented detection algorithms for:
  * domain name generation malware C&C,
  * ICMP tunnels,
  * inferring site local publicly routable IPv4 and IPv6 local subnets,
  * scanning traffic, and
  * inferring local DNS zones.
- Built CI/CD pipeline for Labs team.
- Contribute open source code to core Zeek and packages for detecting emerging threats.
- Write technical research blogs individually and as a team.

    Security Scorecard—New York, NY Senior Software Engineer, Attribution: September 2019–November 2019; Software Engineer, Attribution: January 2018–September 2019

- Designed & implemented related domains filter (50% → 2% false negative rate) in Spark MLlib.
- Planned roadmap and led long-term attribution improvements team.
- Led hiring and interview process for two attribution engineers.
- Implemented custom scorecard feature (additional $1.5M ARR in first quarter).

Selected Talks & Workshops

3. "Hands-on Adversarial Machine Learning." DEF CON 27. 08/2019 Las Vegas, NV, USA [Link—Code] and O'Reilly Live Online Training [Link—Code]

2. "IoT: Cybersecurity and Privacy Issues in a Hyper-Connected World." King & Spalding Cybersecurity & Privacy Summit. 04/2017 Atlanta, GA, USA

1. "Passive DNS-based Device Identification." NANOG 67. 06/2016 Chicago, IL, USA

Service

    Program Committee for AISec (2021), Deep Learning Security and Privacy (2022, 2023)

    Technical reviewer for Strengthening Deep Neural Networks

    Volunteer Tech Instructor for Black Girls Code

Education

    Georgia Institute of Technology: Computer Science, Ph.D., 2015.

    Illinois Institute of Technology: Computer Science, B.S. w/ Honors, 2009.