

**Eihal Alowaisheq, Ph.D.**  
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Experienced Cybersecurity Researcher with a track record of impactful contributions to tier 1 security conferences. Specialized in cybercrime defense, traffic analysis, web security, and internet measurement. I'm seeking an opportunity to utilize my skills in cybersecurity.

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## SKILLS

- Cybersecurity Research
  - Cybercrime Defense
  - Traffic Analysis
  - Cyber Threat Intelligence (CTI)
  - Open Source Intelligence (OSINT)
  - Vulnerability Assessments
  - Artificial Intelligence
  - Natural Language Processing (NLP)
  - Scientific Writing
  - *Programming Languages:* Python, Shell Scripting, JavaScript, C, C++, PHP, Java, Assembly
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## EDUCATION

**Ph.D.**, Doctor of Philosophy, Computer Science, Indiana University

**08/2012 - 12/2020**

*Dissertation: "Security Traffic Analysis Through the Lenses of: Defenders, Attackers, and Bystanders"*

**M.Sc.**, Master of Computer Science, Computer & Information Sciences, King Saud University

**B.Sc.**, Bachelor of Computer Applications, Computer & Information Sciences, King Saud University

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## AWARDS:

Distinguished Paper Award at the NDSS19 for the paper: "Cracking the Wall of Confinement: Understanding and Analyzing Malicious Domain Takedowns."

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## SELCTED PROJECTS

### Assessment of cybercrime defense actions:

- Built a comprehensive methodology to analyze a large collection of OSINT, including various blacklist feeds, passive DNS data spanning six years, and historical WHOIS information
- Conducted a longitudinal analysis on the take-down process of more than 620K seized domains, identifying weaknesses in the operations.
- Demonstrated cases of seized domains that have been maliciously re-used after being released.
- Ethically hijacked a domain the FBI inadequately seized.

### Presenting a stealthy domain-hijacking technique:

- Presented a DNS misconfiguration risk in domains using DNS hosting providers that leads to domain hijacking.
- performed a large-scale analysis on over 1M high-profile domains, 17 DNS hosting providers, and 12 popular public resolver operators to confirm the prevalence of this security risk.
- Discovered 628 domains that are hijackable by the proposed attack, including high-profile domains (e.g., 6 government entities and 2 payment services), 14 affected DNS hosting providers (e.g., Amazon Route 53), and 10 vulnerable public resolver operators (e.g., Cloudflare)

#### Utilizing NLP for semantic-analysis:

- Used NLP techniques (e.g., NLTK) and machine learning algorithms to infer fake Amazon's reviews.
- Used Twitter's API and OpenAI API to infer tweets' sentiments and identify trending impressions towards specific hashtags.

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## PROFESSIONAL EXPERIENCE

### King Saud University KSU, Riyadh, Saudi Arabia

01/2007 - Present

#### Assistant Professor, Computer & Information Sciences (Remote)

03/2021 - Present

- Research
- Direct graduate students' research

#### Lecturer, Computer & Information Sciences

01/2009 - 08/2012

- Taught web application programming, operating systems, software engineering, Assembly language, and ASP.net to undergraduate students.
- Contributed as a member of the Accreditation and Intellectual Property units in the Information Technology Department
- Co-advised students' graduation projects.

#### Teaching Assistant, Computer & Information Sciences

08/2007- 12/2008

- Taught web application programming, operating systems, software engineering, Assembly language, and ASP.net to undergraduate students.

### Expert People, Riyadh, Saudi Arabia

09/2006 - 07/2007

#### Programmer, ASP.net

- Developed web solutions for several public and educational organizations.

### King Saud University KSU, Riyadh, Saudi Arabia

#### Teacher, Training Center

01/2005 - 05/2005

Instructed Microsoft Access, Photoshop, Flash, and Dream Weaver to students and staff.

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