

BAHRUZ JABIYEV

bahrucz.me | jabiyev.bahrucz@gmail.com | github.com/bahruczjabiyev

EDUCATION

Northeastern University <i>PhD in Cybersecurity</i>	Sep. 2017 – Mar. 2023 Boston, MA
Istanbul Sehir University <i>MSc in Cybersecurity Engineering</i>	Oct. 2014 – Jun. 2016 Istanbul, Turkey
Middle East Technical University <i>BSc in Computer Engineering</i>	Sep. 2008 – Jun. 2013 Ankara, Turkey

PROFESSIONAL EXPERIENCE

Computational Postdoctoral Fellow <i>Cold Spring Harbor Laboratory, Quantitative Biology</i> <ul style="list-style-type: none">Research interests: Biomimetic Security	Apr. 2023 – present Cold Spring Harbor, NY
Research Assistant <i>Northeastern University, College of Computer Sciences</i> <ul style="list-style-type: none">Research interests: Web Security, Network Security	Sep. 2017 – Apr. 2023 Boston, MA
Research Intern <i>Google, Envoy Platform Team</i> <ul style="list-style-type: none">Built a coverage-guided differential fuzzing framework for the security testing of HTTP servers in Google Cloud Platform	May 2022 – Sep 2022 Cambridge, MA
Security Engineer Intern <i>Facebook, Online Safety Team</i> <ul style="list-style-type: none">Expanded a tool which was used only for terrorism investigations, to be also used for child abuse and human trafficking investigations	Jun. 2019 – Aug. 2019 Menlo Park, CA
Penetration Tester <i>Biznet (cybersecurity company)</i> <ul style="list-style-type: none">Reported security vulnerabilities in web applications and internal networks of the customersDeveloped various tools for the automation of security-related tasksDesigned and delivered a training program for future penetration testers	Dec. 2014 – July 2017 Istanbul, Turkey
Web Developer <i>Sekizbit (software company)</i> <ul style="list-style-type: none">Contributed to the development of a patient portal application for dental practices	Oct. 2014 – Dec. 2014 Istanbul, Turkey

TEACHING EXPERIENCE

Teaching Assistant <i>Northeastern University</i> <ul style="list-style-type: none">TAed for a graduate level course called <i>Software Vulnerabilities and Security</i>Developed hands-on final exam and quizzes, also helped in gradingMentored students in their class projects	Sep. 2020 – Dec. 2021 Boston, MA
Guest Lecturer <i>Northeastern University</i> <ul style="list-style-type: none">Gave a lecture to graduate students about some of the web vulnerabilities and attacks	Oct. 2021 Boston, MA
Teaching Assistant <i>Northeastern University</i> <ul style="list-style-type: none">TAed for a graduate level course called <i>Software Vulnerabilities and Security</i>Had office hours with students to answer their questions about assignments	Sep. 2019 – Dec. 2019 Boston, MA
Security Trainer <i>Biznet (cybersecurity company)</i> <ul style="list-style-type: none">Developed and taught training material about web and network security	2017 Istanbul, Turkey

MENTORING EXPERIENCE

Cem Topcuoglu <i>PhD student in Cybersecurity, Northeastern University</i>	Mar. 2022 – present
Anthony Gavazzi <i>PhD student in Computer Science, Northeastern University</i>	Apr. 2022 – present
Seyed Ali Akhavan <i>PhD student in Computer Science, Northeastern University</i>	May. 2022 – present

PROFESSIONAL SERVICE

Program Committee Member <i>ACM CCS 2023, Web Security Track</i>	May 2023 – present
Hiring Committee Member <i>Khoury College of Computer Sciences, Northeastern University</i>	Dec. 2021 – Apr. 2022

CONFERENCE PUBLICATIONS

- Bahruz Jabiye, Steven Sprecher, Anthony Gavazzi, Tommaso Innocenti, Kaan Onarlioglu, Engin Kirda, **FRAMESHIFTER: Security Implications of HTTP/2-to-HTTP/1 Conversion Anomalies**, 31st USENIX Security Symposium (Security 2022), Boston, MA, August 2022
- Bahruz Jabiye, Steven Sprecher, Kaan Onarlioglu, Engin Kirda, **T-Reqs: HTTP Request Smuggling with Differential Fuzzing**, ACM Conference on Computer and Communications Security (CCS 2021), Virtual, November 2021
- Bahruz Jabiye, Jeremiah Onalapo, Gianluca Stringhini, Engin Kirda, **Game of FAME: Automatic Detection of FAke MEms**, Conference for Truth and Trust Online (TTO 2021), Virtual, October 2021
- Bahruz Jabiye, Sinan Pehlivanoglu, Kaan Onarlioglu, Engin Kirda, **FADE: Detecting Fake News Articles on the Web**, 16th International Conference on Availability, Reliability and Security (ARES 2021), Virtual, August 2021
- Bahruz Jabiye, Omid Mirzaei, Amin Kharraz, Engin Kirda, **Preventing Server-Side Request Forgery Attacks**, 36th ACM Symposium on Applied Computing (ACM SAC 2021), Virtual, May 2021

OTHER PUBLICATIONS

- Saman Jafari, Tien Vo-Huu, Bahruz Jabiye, Alejandro Mera, Reza Mirzazade Farkhani, **Cryptocurrency: A challenge to legal system**, Available at SSRN, May 2018
- Bahruz Jabiye, **Generating Application Layer IDS Rules from Cyber Threat Intelligence**, Master's Thesis, June 2016

SELECTED ACHIEVEMENTS & AWARDS

NDSS Student Travel Grant <i>One of 17 that was awarded from over 80 applications to attend the NDSS conference</i>	2023
PortSwigger Nomination for Top 10 Web Hacking Technique <i>Frameshifter paper's technique was nominated as one of top 10 web hacking techniques of 2022</i>	2022
NYU CSAW North America Applied Research Competition <i>T-Reqs paper was invited to compete as one of 83 top-quality research papers in cybersecurity</i>	2022
PortSwigger Nomination for Top 10 Web Hacking Technique <i>T-Reqs paper's technique was nominated as one of top 10 web hacking techniques of 2021</i>	2021
4th Place in Hacking Competition <i>An individual hacking competition for students from Boston Area colleges</i>	2019
OSCP (Offensive Security Certified Professional) <i>24 hours long hands-on exam with the goal to compromise at least three out of five systems</i>	2017

MEDIA COVERAGE

New differential fuzzing tool reveals novel HTTP request smuggling techniques <i>The Daily Swig</i>	Nov. 2021
HTTP request smuggling vulnerability in Apache Tomcat ‘has been present since 2015’ <i>The Daily Swig</i>	Jul. 2021