

Harun Oz

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Education

PhD ○ Florida International University, Miami, FL, USA
(2019-2024) Major: Electrical and Computer Engineering (Cumulative GPA: **3.95/4.00**)

BSc ○ Antalya Bilim University, Antalya, Turkey.
(2014-2019) Major: Computer Engineering (Cumulative GPA: **3.47/4.00**)

Work Experience

Keysight Technologies ○ Cybersecurity Research and Development Intern
(2022 Summer)

- Worked with in the Application and Threat Intelligence (ATI) Research Center.
- Implemented ML-based recommendation system for Threat Simulator based on event data captured by customer events.

Florida International University ○ Graduate Research Assistant: Team member of the Cyber-Physical Systems Security Lab (CSL)
(2019-Present)

- Identified and responsibly disclosed serious security vulnerabilities in open-source web applications, and libraries received 19 CVEs, and acknowledged by US-CERT.
- Analyzed the security implications of emerging web technologies and APIs.
- Teaching assistant for Network Security, Introduction to Data Mining, Introduction to Programming 2 classes.
- Published one journal, one conference and one poster paper in top venues.

Antalya Bilim University ○ Research and Teaching Assistant
(2018-2019)

- Created tools for analyzing effects of mutations on Protein-protein Interactions(PPIs) by utilizing ML techniques.
- Helped students during lab sessions of Object Oriented Programming with Java class.

LugEnergy ○ Software Engineer Intern: Worked in WallBoxOK project.
(2017 Summer)

- Conducted testing of the WallBoxOK application, analyzed results and documented observations.
- Identified tasks that could be improved through automation.
- Implemented component to enhance language translate ability of the application.

JSON Software ○ Part-time Software Engineer: Developed and maintained responsive web applications.
(2016-2017)

- Gained experience about process planning and solving problems that occurred in the applications.
- Built the user friendly client side interface for several projects using JavaScript, CSS and HTML.

Publications

Journals

1. **Harun Oz**, Ahmet Aris, Albert Levi, A. Selcuk Uluagac. "A survey on Ransomware: Evolution, Taxonomy and Defense Solutions" ACM Computing Surveys (CSUR), 2022.

Conferences

1. Shrenik Bhansali , Ahmet Aris, Abbas Acar, **Harun Oz**, and A. Selcuk Uluagac. "A First Look at Code Obfuscation for WebAssembly", 15th ACM Conference on Security and Privacy in Wireless and Mobile Networks (WiSEC), 2022.
2. **Harun Oz**, Ahmet Aris, Abbas Acar, Guliz Seray Tuncay, Leonardo Babun and Selcuk Uluagac. "RoB: Ransomware over Modern Web Browsers", in Proc. of the 32nd USENIX Security Symposium,
3. **Harun Oz**, Ahmet Aris, Abbas Acar, Guliz Seray Tuncay, Amin Kharraz, and A. Selcuk Uluagac. "The (In)Security of File Upload Ecosystem in Node.js", *Under Review*.

Posters

1. **Harun Oz**, Faraz Naseem, Ahmet Aris, Abbas Acar, Guliz Seray Tuncay, and A. Selcuk Uluagac. "Feasibility of Malware Visualization Techniques against Adversarial Machine Learning Attacks" has been accepted for publication in the 43rd IEEE Symposium on Security and Privacy (S&P).

Computer Skills

Languages C/C++, Python, Java, JavaScript

Web REST, JSON, XML

Security Tools WireShark, Scapy, OpenSSH, Hashcat

ML Scikit-learn, NumPy, Pandas, TensorFlow

Productivity Latex, MS Office, Excel

OSs Linux, Windows, MacOS

Awards and Achievements

- Mentored undergraduate students in NSF-Funded Research Experience for Undergraduates (REU) program (Summer 2021, Summer 2022, Summer 2023).
- Received student travel grant from ACM for attending WiSec 2022 conference.
- Merit scholarship for graduate studies.
- Award for being ranked second best in the fourth year of undergraduate studies.
- Received funding from University students' research projects support program from the Scientific and Technological Research Council of Turkey.

References

- **Dr. A. Selcuk Uluagac (Major Advisor)**

Eminent Scholar Chaired Associate Professor

Florida International University, Miami, FL

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Personal Web: <http://web.eng.fiu.edu/selcuk>

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- **Dr. Guliz Seray Tuncay**

Senior Research Scientist

Google

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- **Steve McGregory**

Sr. Director of the Application and Threat Intelligence Research Center

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