HARUN OZ

Miami, FL · harunozweb@gmail.com · +1 (786) 642 4105 · harunoz.net

EDUCATION

Florida International University Miami, FL
Doctor of Philosophy in Computer Engineering *GPA: 3.95* August 2019 - July 2024

Antalya Bilim University Antalya, Turkey
Bachelor of Science in Computer Engineering *GPA: 3.45* August 2014 - June 2019

WORK EXPERIENCE

Keysight Technologies Austin, Texas
Research and Development Intern June 2022 - August 2022

- Worked at Application and Threat Intelligence (ATI) Research Center.
- Developed and tested machine learning models to identify and recommend security assessments for Threat Simulator customers based their event data on the application.
- Documented model architecture, methodologies, and outcomes for internal and external reference.

Florida International University Miami, FL
Graduate Research Asisstant August 2019 - Present

- Facilitated a data-driven approach to analyze the security risks and malicious effects of emerging web technologies and applications in collaboration with Google researchers.
- Identified and responsibly disclosed various security vulnerabilities in open-source Node.js applications, and libraries received 19 CVEs.
- Published academic papers in top venues and filed 2 patents.
- Mentored 15 undergraduate students in a mentorship program funded by Microsoft.

JSON Software Antalya, Turkey
Part-time Software Engineer Dec 2017 - May 2018

- Maintained and optimized responsive web applications, enhancing user experience and site reliability.
- Gained experience about process planning and solving problems that occurred in the applications.
- Developed user-friendly interfaces for several projects, boosting user engagement and adoption.

LUG ENERGY Valencia, Spain
Software Engineer Intern Jun 2017 - Aug 2017

- Identified and created automation scripts for tasks for WallBoxOK application, enhancing operational efficiency and accuracy. Lead to improved performance and reliability through documented observations and analysis.

SELECTED COMPLETED PROJECTS

Ransomware over Browsers *JavaScript, Python*
In this project, we first explored a new attack vector for ransomware over a browser and proposed three different defense approaches to mitigate this new attack vector at different levels. The outcome of this project has been presented at the USENIX Security Conference.

NodeSecure *Node.js, Python*
We created an automated tool to detect Unrestricted File Upload (UFU) vulnerabilities in Node.js applications. Using this tool, we identified and responsibly disclosed serious security vulnerabilities in open-source Node.js applications and libraries ($\simeq$ 2 million downloads) and received 19 CVEs.
Users Rating Behavior for Recommendation Systems *Python*
In a fully-funded research project, I delved into the complexities of user behavior within recommendation systems. Our findings have the potential to significantly improve the effectiveness of various types of recommendation systems, thereby enhancing user experience and engagement.

AWARDS AND ACHIEVEMENTS

Received student travel grant from ACM for attending WiSec 2022 conference. May 2022

Received the first Publication Incentive Award. October 2022

Merit scholarship from the National Science Foundation (NSF) for graduate studies. August 2019

Award for being ranked second best among the fourth-year undergraduate students. June 2019