ASUMAN SENOL

+32 471772543 | www.asumansenol.com | asumansenol@gmail.com | https://github.com/asumansenol

SUMMARY

I am a Privacy Researcher in the Privacy and Identity Management Group at COSIC under the supervision of [Assistant Professor Gunes Acar](#) and [Professor Claudia Diaz](#). I work on online tracking, web privacy, browser fingerprinting. We conduct large-scale web measurement studies to investigate privacy and security issues on the Web. Before starting my doctoral studies, I worked as a web developer for 5 years.

EXPERIENCE

Student Researcher (Intern)

Google LLC. - Zurich/Switzerland

January 2023 - May 2023

- Participated in the [Privacy Budget](#) project.
- Explored legitimate use cases of browser fingerprinting.
- Created a ML-based system to identify login and signup pages, enabling the analysis of browser fingerprinting efforts on these specific pages.

Application Development Engineer

Roketsan Missiles Inc. - Ankara/TURKEY

April 2017 - April 2020

- Created web applications using ASP.NET MVC with Agile methodologies.
- Developed mobile applications using React Native.
- Designed Web APIs and deployed them on the Azure platform.
- Addressed issues and introduced new features to ongoing projects.

Software Engineer

ONUR YÜKSEK TEKNOLOJİ A.S. - Ankara/TURKEY

Jan 2016 - April 2017

- Engaged in front-end development for the Voice Communication System project, employing BackboneJS.
- Worked as full-stack developer within a desktop project, using JAVAFX.

Software Engineer

ICTERRA Bilgi ve İletişim Teknolojileri San. Tic. A.S. - Ankara/TURKEY

Feb 2015 - Jan 2016

- Worked as a full-stack developer for an internal ERP project, using JAVA Spring and AngularJS technologies.

EDUCATION

Doctor of Philosophy - Ph.D., Web Privacy

KU LEUVEN - Leuven/BELGIUM

April 2020 - Now

- Conducting empirical research on online tracking mechanisms at a large-scale.
- Designing web crawlers using Node.js and Puppeteer specifically for measurement studies.
- Executing crawls on highly frequented web pages (both 100K and 1M) to inspect online trackers.
- Conducting analyses on the crawled data using Python and Jupyter Notebooks.

Master of Science - MS, Cyber Security

METU - Ankara/TURKEY

Sep 2015 - June 2017

- During my master's program, I acquired extensive expertise in cybersecurity, including secure software development, penetration testing, network security, legal aspects, and cryptography. My thesis focused on cryptanalysis of the Rectangle algorithm, improving the attack on it.

Bachelor of Science - BS, Mathematics

METU - Ankara/TURKEY

Sep 2010 - June 2015

SKILLS & TOOLS

- Node.js
- JavaScript
- Python
- Chrome Devtools Protocol
- Puppeteer
- Web development (C#, ASP.NET MVC 5, ASP.NET Web API, Hangfire, Razor View)
- Mobile Application Development (React Native)
- SQL - PL/SQL
- ORM (Entity Framework)
- Cloud Services

AWARDS

1. [2022 CNIL-Inria Award for Privacy Protection (2023)](#)

PUBLICATIONS

1. A. Senol, and G. Acar, "[Unveiling the Impact of User-Agent Reduction and Client Hints: A Measurement Study](#)," In Proceedings of the 23rd ACM Workshop on Privacy in the Electronic Society (WPES 2023), ACM, 16 pages, 2023.

2. Moti, Z., Senol, A., Bostani, H., Borgesius, F. Z., Moonsamy, V., Mathur, A., & Acar, G. (2023). Targeted and Troublesome: Tracking and Advertising on Children's Websites. arXiv preprint [arXiv:2308.04887](#).

3. A. Senol, G. Acar, F. Z. Borgesius Prof. F.J., and M. Humbert, "[Leaky Forms: A Study of Email and Password Exfiltration Before Form Submission](#)," In 31st USENIX Security Symposium 2022, Usenix, 18 pages, 2022.

4. [Improved differential attacks on Rectangle](#), Master Thesis, Aug 15, 2017

5. [Differential Attacks on Lightweight Block Ciphers PRESENT, PRIDE and RECTANGLE Revisited](#), **ISCTurkey,** 2017

6. [On Differential Factors](#), **LightSec,** 2016