

ASUMAN SENOL

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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 full-stack 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 applications 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 through the implementation of Agile methodologies.
- Developed mobile applications using React Native.
- Designed Web APIs and deployed them on the Azure platform.
- Addressed issues and introduced novel 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.
- Contributed to full-stack development within a desktop project, using JAVA FX.

Software Engineer

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

Feb 2015 - Jan 2016

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

EDUCATION

Doctor of Philosophy - Ph.D., Web Privacy

KU LEUVEN - Leuven/BELGIUM

April 2020 - Now

- Performing extensive empirical research on online tracking mechanisms at a large-scale.
- Designing a web crawler using Node.js and Puppeteer specifically for research investigations.
- Executing crawls on highly frequented web pages (both 100K and 1M) to inspect online trackers.
- Conducting analyses of survey data using Python and Jupyter Notebooks.

Master of Science - MS, Cyber Security

METU - Ankara/TURKEY

Sep 2015 - June 2017

- Throughout my master's program, I gained extensive knowledge in various facets of cybersecurity. This encompassed the secure software development lifecycle, penetration testing strategies, network security, the legal aspects of cybersecurity, and the realm of cryptography. As a focal point of my studies, I delved into the cryptanalysis of a significant lightweight algorithm named Rectangle for my master's thesis. Subsequently, my research contributed to enhancing the attack techniques on the Rectangle algorithm.

Bachelor of Science - BS, Mathematics

METU - Ankara/TURKEY

Sep 2010 - June 2015

- Aside from enrolling in Advanced Mathematical courses, I also pursued various classes offered by the CS Department. These included subjects such as Object-Oriented Programming with JAVA, Algorithms and Data Structures, and Database Management Systems.

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, 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.
2. [Improved differential attacks on Rectangle](#), Master Thesis, Aug 15, 2017
3. [Differential Attacks on Lightweight Block Ciphers PRESENT, PRIDE and RECTANGLE Revisited](#), **ISCTurkey**, 2017
4. [On Differential Factors](#), **LightSec**, 2016