

# 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 web developer for 5 years.

## EXPERIENCE

### **Student Researcher (Intern)**

**Google LLC. - Zurich/Switzerland**

January 2023 - May 2023

- Participated in the [Privacy Budget](#) project.
- Investigated use cases of browser fingerprinting, focusing on its legitimate uses.
- Trained an ML model to identify login and signup pages, enabling the analysis of browser fingerprinting attempts on those specific pages.

### **Application Development Engineer**

**Roketsan Missiles Inc. - Ankara/TURKEY**

April 2017 - April 2020

- Developed web applications using ASP.NET MVC with agile methodologies.
- Developed mobile applications using React Native.
- Designed Web APIs and deployed them to MS Azure.
- Addressed issues and introduced new features to existing projects.

### **Software Engineer**

**ONUR YÜKSEK TEKNOLOJİ A.S. - Ankara/TURKEY**

Jan 2016 - April 2017

- Worked as front-end developer in the Voice Communication System project, using 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.

## **EDUCATION**

### **Doctor of Philosophy - Ph.D., Online Tracking Technologies and Web Privacy**

**KU LEUVEN - Leuven/BELGIUM**

April 2020 - 2024(expected)

- 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 the most popular web pages (both 100K and 1M) to inspect online trackers.
- Conducting analyses on the crawled data using Python.

### **Master of Science - MS, Cyber Security**

**METU - Ankara/TURKEY**

Sep 2015 - June 2017

- Acquired expertise in cybersecurity, including secure software development, penetration testing, network security, legal aspects, and cryptography.
- Focused on cryptanalysis of the Rectangle algorithm in the thesis.

### **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](#)

## **PUBLICATIONS**

1. WPES, 2023 - [Unveiling the Impact of User-Agent Reduction and Client Hints: A Measurement Study](#) - **Asuman Senol**, Gunes Acar
2. arXiv preprint, 2023 (under submission-S&P) - [Targeted and Troublesome: Tracking and Advertising on Children's Websites](#) - Zahra Moti, **Asuman Senol**, Hamid Bostani, Frederik Borgesius, Velesha Moonsamy, Arenush Mathur, Gunes Acar
3. USENIX, 2022 - [Leaky Forms: A Study of Email and Password Exfiltration Before Form Submission](#), **Asuman Senol**, Gunes Acar, Frederik Zuiderveen Borgesius, Mathias Humbert
4. Master Thesis, 2017- [Improved differential attacks on Rectangle](#), Master Thesis, Aug 15, 2017
5. ISCTurkey, 2017 - [Differential Attacks on Lightweight Block Ciphers PRESENT, PRIDE and RECTANGLE Revisited](#), Cihangir Tezcan, Oral Okan, **Asuman Senol**, Erol Doğan, Furkan Yücebaş, Nazife Baykal