

# ASUMAN SENOL

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## SUMMARY

I am a Privacy Engineer working on diverse aspects of privacy engineering, spanning from machine learning to large-scale web measurement, with a focus on developing innovative privacy and security features. I have a Ph.D. on Web Privacy from KU Leuven. Previously I worked as a full-stack engineer which enhanced my understanding of the web. With a strong academic foundation and hands-on expertise, I actively contribute to the entire development process, from interacting with stakeholders to understanding business needs, and capturing requirements in user stories, to development, unit testing, and documentation. I have proficiency in cloud services, ASP.NET MVC 5, C#, Node.js, JavaScript, TypeScript, Python, Puppeteer, SQL, and Entity Framework.

## EXPERIENCE

### **Student Researcher (PhD Intern Program)**

**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.

**Skills and Tools:** TypeScript · JavaScript · Go · Python · Data Privacy · Browser Fingerprinting

### **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.

**Skills and Tools:** ASP.NET MVC · Entity Framework · Oracle Database · C# · React Native · Git · Hangfire · PL/SQL · Microsoft SQL Server · API Development · ASP.NET Web API · Azure

### **Software Engineer**

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

Jan 2016 - April 2017

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

- Worked as a full-stack developer within a desktop project using JavaFX.

**Skills and Tools:** MySQL · JavaScript · JavaFX · Jira · Git

## 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 and AngularJS.

**Skills and Tools:** MySQL · JAVA Spring · AngularJS · Play Framework

## EDUCATION

### Doctor of Philosophy - Ph.D., Web Privacy

*KU LEUVEN - Leuven/BELGIUM*

April 2020 - June 2024

- 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.

**Skills and Tools:** Node.js · Python · Web Scraping · JavaScript · Puppeteer · Chrome Developer Tools · Chrome Extensions · Data Privacy

### Master of Science - MS, Cyber Security

*METU - Ankara/TURKEY*

Sep 2015 - June 2017

- Expertise in cybersecurity, including secure software development, penetration testing, network security, legal aspects, and cryptography.

### Bachelor of Science - BS, Mathematics

*METU - Ankara/TURKEY*

Sep 2010 - June 2015

## AWARDS

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

## **PUBLICATIONS**

1. [\*\*WWW, 2024\*\*](#) - [The Double-Edged Sword: Identifying Authentication Pages and their Fingerprinting Behavior](#) - **Asuman Senol**, Alisha Ukani, Dylan Cutler, Igor Bilogrevic
2. [\*\*S&P, 2024\*\*](#) - [Targeted and Troublesome: Tracking and Advertising on Children's Websites](#) - Zahra Moti, **Asuman Senol**, Hamid Bostani, Frederik Zuiderveen Borgesius, Veelasha Moonsamy, Arunesh Mathur, Gunes Acar
3. [\*\*WPES, 2023\*\*](#) - [Unveiling the Impact of User-Agent Reduction and Client Hints: A Measurement Study](#) - **Asuman Senol**, Gunes Acar
4. [\*\*USENIX, 2022\*\*](#) - [Leaky Forms: A Study of Email and Password Exfiltration Before Form Submission](#), **Asuman Senol**, Gunes Acar, Frederik Zuiderveen Borgesius, Mathias Humbert
5. **Master Thesis, 2017**- [Improved differential attacks on Rectangle](#)
6. [\*\*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