

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 Technologies 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. My interests lie in domains that involve the application of machine learning and AI to privacy and security, particularly in areas such as web browser privacy.

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

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., 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.

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](#), Master Thesis, Aug 15, 2017
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