

ASUMAN SENOL

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SUMMARY

I am a highly motivated, results-driven engineer with a broad background in engineering and software development. I have a solid academic background and plenty of real-world experience, and I have consistently shown that I can contribute to creative projects and solutions. I am skilled in ASP.NET MVC 5, C#, Node.js, JavaScript, Python, Puppeteer, SQL, Entity Framework, and cloud services. I conducted large-scale web measurement studies to investigate privacy and security issues during my doctoral studies.

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.

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