ASUMAN SENOL

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SUMMARY

I am a dynamic and results-oriented professional with extensive experience across diverse facets of software engineering and development. With a robust academic background and hands-on expertise, I have consistently showcased adeptness in contributing to cutting-edge projects and solutions. My technical proficiency includes mastery in Node.js, JavaScript, Python, Puppeteer, C#, ASP.NET MVC 5, SQL, Entity Framework, and cloud services. This blend of practical skills, combined with academic knowledge, has enabled me to excel in delivering innovative solutions and driving impactful outcomes in the software engineering domain.

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 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. WWW, 2024 (under submission) - 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