

# ASUMAN SENOL

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## SUMMARY

I am a dynamic, results-driven software engineer with a Master's in Cyber Security and a Ph.D. in Privacy. I excel in contributing across the full development lifecycle—from engaging with stakeholders and identifying business needs to translating them into user stories, and overseeing development, unit testing, API development, and documentation. My expertise spans Python, Node.js, JavaScript, TypeScript, SQL, C#, cloud services (AWS and Azure), and API development, allowing me to deliver robust and scalable solutions.

## EXPERIENCE

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

**Google LLC. - Zurich/Switzerland**

January 2023 - May 2023

- Contributed to the [Privacy Budget](#) project
- Analyzed legitimate uses of browser fingerprinting
- Trained a machine learning model to detect authentication pages, facilitating the study of browser fingerprinting attempts on these pages

**Skills and Tools:** Python · TypeScript · JavaScript · Go · 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
- Created mobile applications using React Native
- Designed and deployed Web APIs on MS Azure
- Enhanced existing projects with new features and issue resolutions

**Skills and Tools:** ASP.NET MVC · Entity Framework · Python · 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 on a Voice Communication System project using JavaScript
- Developed a desktop application using JavaFX as a full-stack engineer

**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

- Developed a full-stack 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

- Conducted empirical research on online privacy violations
- Proposed novel approaches, such as browser extensions, to address privacy concerns
- Collaborated with legal teams to understand regulatory frameworks such as GDPR and CCPA

**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

- Gained expertise in secure software development, penetration testing, network security, cryptography, and legal aspects

### **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