

# ASUMAN SENOL KAR

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## SUMMARY

I am a dynamic and results-oriented software engineer with a Master's in Cyber Security and a Ph.D. in Web Security and Data Privacy. 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 Python, JavaScript, TypeScript, Node.js, C#, SQL, cloud services.

## EXPERIENCE

### **Freelance Software Engineer & Technical Consultant**

**ENGIE • Brussels/Belgium • Dec'24 - Present**

- Designed and implemented solutions in C# .Net and Python to meet performance, robustness, and scalability requirements
- Deployed applications in a Kubernetes environment, leveraging DevOps tools and practices
- Collaborated with functional analysts and end-users to gather requirements, plan development tasks, and ensure alignment with business objectives
- Enhanced real-time capabilities, ensuring efficient processing and high reliability for trading operations

**Skills and Tools:** Python, ASP.NET, C#, Azure DevOps

### **Senior Software Engineer**

**Here Technologies • Brussels/Belgium • Jul'24 - Dec'24**

- Automated Privacy Management: Developed RESTful APIs to streamline privacy compliance, enhancing efficiency for privacy specialists and product teams.
- Privacy by Design: Integrated privacy principles into the product development lifecycle, automating compliance tasks and aligning with Product Trust initiatives.

**Skills and Tools:** Python, TypeScript, JavaScript, Flask, AWS, RESTful APIs, MySQL, Docker, CI/CD pipelines.

## Student Researcher

**Google LLC. • Zurich/Switzerland • Jan'23 - May'23**

- 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 • Apr'17 - Apr'20**

- 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'16 - Apr'17**

- 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 A.S. • Ankara/Turkey • Feb'15 - Jan'16**

- 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 • Apr'20 - May'24**

- 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
- Automated Privacy Management: Developed an automation tool to enhance efficiency for privacy specialists and product teams
- Privacy by Design: Integrated privacy principles into the product development lifecycle, automating compliance tasks and aligning with Product Trust initiatives

### **Master of Science - MS, Cyber Security**

**METU - Ankara/Turkey • Sep'15 - Jun'17**

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

### **Bachelor of Science - BS, Mathematics**

**METU - Ankara/Turkey • Sep'10 - Jun'15**

## **AWARDS**

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

## **PUBLICATIONS**

1. **WWW'24** - [The Double-Edged Sword: Identifying Authentication Pages and their Fingerprinting Behavior](#)
2. **S&P'24** - [Targeted and Troublesome: Tracking and Advertising on Children's Websites](#)
3. **WPES'23** - [Unveiling the Impact of User-Agent Reduction and Client Hints: A Measurement Study](#)
4. **USENIX'22** - [Leaky Forms: A Study of Email and Password Exfiltration Before Form Submission](#),
5. **Master Thesis, 2017**- [Improved differential attacks on Rectangle](#)
6. **ISCTurkey'17** - [Differential Attacks on Lightweight Block Ciphers PRESENT, PRIDE and RECTANGLE Revisited](#)