

# Hasan Erdem Ak

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## SUMMARY

Full-Stack Developer & Assistant Team Leader with expertise in .NET, C#, React, and TypeScript. Experienced in building secure, scalable applications and implementing best practices for RESTful APIs. Strong background in software engineering, algorithms, machine learning, and AI. Skilled in technical leadership, team coordination, and Agile methodologies. Passionate about continuous learning and delivering high-quality software.

## EDUCATION

### Computer Engineering Bachelor's Degree

Sep 2018 – Sep 2023 | Ankara, Türkiye

TOBB University of Economics and Technology

- Relevant Coursework: Object-oriented programming, Data Structures, Algorithm Analysis, Design Patterns, Database Systems, Software Engineering, Operating Systems, System Programming, Computer Network and Security, Computer Architecture and Design, Machine Learning, Artificial Intelligence, Natural Language Processing, and Introduction to Cyber Security
- Extracurricular Activities and Leadership Roles: Technical lead of Google DSC TOBB ETU, Founder chairman of Table Tennis Society, Vice chairman of Music Society, Vice chairman of the Algorithmic Finance Society, and Board member of Blockchain Society

### High School Diploma

Aug 2018 | Sakarya, Türkiye

Karasu Anatolian High School

- GPA: 3.93/4.0 (School Rank: 1)

## SKILLS

**Programming Languages** — C#, Java, C, Python, TypeScript, JavaScript

**Web Technologies** — HTML, CSS

**Frameworks & Libraries** — .NET, React, Spring, Hibernate, Django, Node.js, Bootstrap, WPF

**Databases** — SQL, MSSQL, SQLite, PostgreSQL

**Operating Systems** — Windows, Linux, MacOS

**Tools & IDEs** — Git, GitHub, Bitbucket, SourceTree, Postman, Visual Studio, VS Code, IntelliJ IDEA, Azure DevOps

**Concepts & Methodologies** — OOP, RESTful API, CI/CD, Unit Testing, Agile Methodologies, Design Patterns

## PROFESSIONAL EXPERIENCE

### Siren IT Solutions

Oct 2023 – present | Ankara, Türkiye

Full-Stack Developer & Assistant Team Leader

- Developing a secure, user-friendly internal web portal for Securitas, a global leader in security solutions, using C#, .NET, and Entity Framework for the back end, and React with TypeScript for the front end.
- Designing and testing RESTful APIs with TypeScript, Postman, and Swagger, implementing best practices for security and scalability.
- Co-leading a team of nine (eight software developers and one business analyst) in collaboration with the team lead.
- Providing technical guidance to junior developers, coordinating project assignments, and overseeing code reviews, task report evaluations, and team meetings to ensure the timely delivery of high-quality software solutions.

### Bumper UK

Sep 2022 – Dec 2022 | Ankara, Türkiye

Back-End Developer Intern

- Developed applications for the company's website admin panel using Python, Django, SQLite, HTML, CSS, and JavaScript following the MVT pattern.
- Created an application to transfer data from a text field to the database, supporting CSV input/output and implementing data validation.

*Front-End Developer Intern*

- Contributed to the development of LEGA, a Spring-based web application built on a microservices architecture following REST principles.
- Implemented front-end components using TypeScript and Angular, ensuring seamless integration with back-end services.

**SimBT**

May 2021 – Sep 2021 | Ankara, Türkiye

*Full-Stack Developer Intern*

- Developed WPF applications in .NET using C#, XAML, and MVVM, contributing to Turkey's first domestically developed virtual bridge simulator.
- Integrated Unity for specific simulation components, enhancing realism and interactivity.
- Designed and implemented simulation panels, utilizing UDP for real-time communication and multithreading to improve system performance and responsiveness.

## PROJECTS

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**SMArt (Security Management Art)**

Oct 2023 – present

Developed a software platform for Securitas, a global leader in security solutions, as part of Siren IT Solutions. The platform enables administrative employees to securely record and report work-related transactions while allowing field employees to fulfill and document operational tasks. It enhances workflow efficiency and department-wide communication. As a Full-Stack Developer, contributed to both the back-end (C#, .NET, Entity Framework) and front-end (React, TypeScript), focusing on security, usability, and scalability. Designed and implemented a secure, user-friendly internal web portal that aligns with Securitas' high standards for operational excellence.

**LEGA**

Jan 2022 – Apr 2022

Developed front-end features for LEGA, a litigation and enforcement management platform designed by Innova to streamline legal and administrative processes for corporate lawyers and contracted law offices. The platform, available in two versions (LEGA & LEGA Lite), provides a centralized and modern approach to case management. As a Front-End Developer Intern, contributed to the Angular & TypeScript-based interface within a Spring-powered microservices architecture. Implemented new features, ensured seamless REST API integration with back-end services, and designed UI components to enhance user experience and functionality. Gained valuable enterprise software development experience and deepened expertise in modern web technologies.

**MARSIM (Maritime Simulator Family)**

May 2021 – Sep 2021

Developed WPF-based simulation panels for MARSIM, Turkey's first domestically developed virtual bridge simulator, designed by SimBT to enhance naval training and operational preparedness. The system provides highly accurate modeling of ship maneuvers, open-sea operations, and port entry/exit simulations. Implemented UDP-based real-time communication, enabling efficient data exchange between simulation components. Optimized system performance through multithreading techniques, ensuring smooth and responsive interactions. Additionally, contributed to visual components of the simulation using Unity, enhancing realism and user experience. This project strengthened expertise in high-performance data processing, network communication, and real-time simulation UI development.

**For more projects, visit my portfolio:**

**<https://hasanerdemak.github.io>**

## CERTIFICATES

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**Problem Solving (Basic)**

Issuer: HackerRank

**Introduction to Python Programming**

Issuer: Developer Ecosystem Programs

**Beginner's Series to Blockchain**

Issuer: Google DSC TOBB ETU

## LANGUAGES

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**English:** B2 | **German:** A1