

## Contact Details

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## EDUCATION

2021 - Present

### **Sabanci University, Turkey**

BSc in Computer Science & Engineering, Minor in Business Analytics (3<sup>rd</sup> Year Student)

- Current GPA is 3.83/4.00
- Dean's List, Fall 2021-Present
- Prominent courses: Data Structures & Algorithms, Advanced Programming, Discrete Mathematics, Database Systems, Computer Networks
- Four-year half-tuition scholarship awarded by Sabanci University in Turkish National University Entrance Exam
- Sakip Sabanci Encouragement Award, 2022 & 2023: One-year full-tuition scholarship awarded for academic excellence in Sabanci University

## SKILLS

### **Computer Science**

C++, C#, Python, R, Java, JavaScript, HTML, CSS

REST API, MySQL, MongoDB, Spring Framework, Docker

### **Languages**

Turkish (Native), English (Advanced), German (Beginner)

### **Other**

Fully competent in Microsoft Office and Google Drive applications

## PROJECTS

Jan 2024

### **Personal Portfolio Website**

- Using HTML, CSS and JavaScript to create a personal portfolio website for demonstrating Front-end web development skills
- Created sections for showing personal information/skills, projects and contact details
- Website can be reached at [efeballar.com](https://efeballar.com)

Oct 2023 –

Jan 2024

### **Sabanci University Mobile Application Development Course (CS310)**

#### **Group Member**

#### **Study Buddy App - Connecting Students for Collaborative Learning**

- Aiming to facilitate the connection between students who are studying similar courses, enabling them to collaborate by working on tasks for their classes
- Creating a user-friendly platform with six endpoints and with key features such as: course selection / filtering, session creating, and making comments on session posts
- Back-end application coded in Java Spring Framework using MongoDB as database, experience with Docker containerization method, and a front-end application coded in Android.

Oct 2023 –

Jan 2024

### **Sabanci University Program for Undergraduate Research Project (PURE)**

#### **Group Member**

#### **Creating a Database for Turkish Election Trends**

- Aiming to scrape the data that does not come in bulk to be processed, and convert it to a format that would be suitable for further trend analysis
- Web scraping using Python libraries and utilizing Selenium to gather information from the official website of the Turkish Supreme Electoral Board
- Preliminary trend analysis and data visualisations of the past elections using Python, and Excel

Oct 2023 –  
Jan 2024

**Sabanci University Computer Networks Course (CS408)**  
**Group Member**

**DiSUcord - Message Networking via Channels**

- Creating a student message networking application via different course channels using TCP/IP sockets and using .NET technology
- Designing both client and server GUIs as Windows Forms app in C#

Oct 2023 –  
Jan 2024

**Sabanci University Database Systems Course (CS306)**  
**Group Member**

**Hospital Database Management System**

- Aiming to create an efficient hospital database for daily usage by using MySQL for storing, managing, and retrieving a broad variety of structured data

Feb 2023 –  
June 2023

**Sabanci University Introduction to Data Science Course (CS210)**  
**Group Member**

**Analyzing the Distribution of MPs in the Grand Assembly of Turkey's History**

- Web scraping using Python's BeautifulSoup library and utilizing Selenium to imitate user behaviour and collect data from the official website of the Grand Assembly of Turkey
- Using a machine learning model to make predictions about future legislative terms
- Generating analytical images with the use of pandas and matplotlib libraries

**WORK EXPERIENCE**

Oct 2023 –  
Jan 2024

**Sabanci University Programming Fundamentals Course (CS201)**  
**Learning Assistant**

- Being interaction with students by holding office hours and answering their questions regarding C++ assignments, and being a part of a team that will help them understand the concepts of programming fundamentals better in the recitation hours

**VOLUNTEERING JOBS**

Sep 2021 –  
Present

**Sabanci University Chess Club**  
**Vice President**

- Popularizing chess in the university by helping club host events and tournaments and representing the university in intercollegiate chess tournaments

Sep 2021 –  
Jan 2022

**Sabanci University Civic Involvement Projects Club (CIP)**  
**Member**

- Raising awareness about volunteering activities while participating in civic involvement projects such as shore cleaning and animal shelter visits

**CERTIFICATES**

Sabanci University Program for Undergraduate Research Certificate, 2024

FreeCodeCamp JavaScript Algorithms and Data Structures Certificate, 2023

Global AI Hub Hands-on Data Visualization with Python, 2022

**REFERENCES**

Fatma Tevhide Altekin Business Analytics Professor Sabanci University

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