EFE BALLAR

Contact Details   Orta mahallesi, Universite caddesi, No:27, 34956, Istanbul, Turkey
M: +905330203345   **E:** efeballar@gmail.com   **LinkedIn:** linkedin.com/in/efeballar
Personal: efeballar.com   **GitHub:** github.com/EfeBallar

EDUCATION

2021 - Present   **Sabanci University, Turkey**
BSc in Computer Science & Engineering, Minor in Business Analytics (3rd Year Student)

- Current GPA is 3.83
- Dean's List, Fall 2021-Present
- 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
- Prominent courses: Data Structures & Algorithms, Object Oriented Programming, Discrete Mathematics, Database Systems, Computer Networks, Mobile Programming

SKILLS

Programming Languages   C++, C#, Python, R, Java, JavaScript, HTML, CSS, MySQL

Technologies/Frameworks   REST APIs, MongoDB, Spring, Docker, AWS, Git/GitHub

Developer Tools   VS Code, Visual Studio, Eclipse, Android Studio, Google Colab

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

Other   Fully competent in Microsoft Office and Google Drive applications

PROJECTS

Jan 2024   **Personal Portfolio Website**

- Employed HTML, CSS and JavaScript to create a personal portfolio website to demonstrate Front-end web development skills
- Designed sections to show personal information/skills, projects and contact details
- Website can be reached at efeballar.com

Oct 2023 – Jan 2024   **Sabanci University Mobile Application Development Course (CS310)**

Study Buddy App - Connecting Students for Collaborative Learning

- Aiming to facilitate the connection between students who are studying similar courses
- Enabled them to collaborate by working on tasks for their classes
- Established 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, experienced with Docker containerization method, and a front-end application coded in Android.

Oct 2023 – Jan 2024   **Sabanci University Program for Undergraduate Research Project (PURE)**

Creating a Database for Turkish Election Trends

- Researched and scraped the data that does not come in bulk to be processed, and converted 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)** |

DiSUcord - Message Networking via Channels

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

| Oct 2023 – Jan 2024 | **Sabanci University Database Systems Course (CS306)** |

Hospital Database Management System

- Established an efficient hospital database for daily usage by using MySQL for storing, managing, and retrieving a broad variety of structured data, in a teamwork environment

| Feb 2023 – June 2023 | **Sabanci University Introduction to Data Science Course (CS210)** |

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

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

WORK EXPERIENCE

| Feb 2024 – Present | **Sabanci University Computational Approaches to Problem Solving Course (IF100)**
Learning Assistant – Part Time |

- Assisted freshmen IF100 students 5 hours a week, by holding office hours regarding programming assignments in Python, and attended the recitation hours to demonstrate computational approaches for problem solving

| Oct 2023 – Jan 2024 | **Sabanci University Programming Fundamentals Course (CS201)**
Learning Assistant – Part Time |

- Interacted with students 5 hours a week by holding office hours and answering their questions regarding C++ assignments, and being a part of a team that helped them understand the concepts of programming fundamentals better in the recitation hours

VOLUNTEERING JOBS

| Sep 2021 – Present | **Sabanci University Chess Club - Vice President** |

- Popularized 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 - Member** |

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

CERTIFICATES

AWS Cloud Practitioner Certificate (CLF-C02), 2024

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

| Gülşen Demiröz | Data Structures Professor | Sabancı University | gulsen.demiroz@sabanciuniv.edu |
| Fatma Tevhide Altekin | Business Analytics Professor | Sabancı University | altekin@sabanciuniv.edu |

References are available upon request