Aybars Yazici

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🌐 **Website:** https://github.com/aybarsyazici

📍 **Home:** 1024 Lausanne (Switzerland)

ABOUT ME

MSc of CS student at EPFL.
Computer Science & Electronics Engineering Double major graduate.

EDUCATION AND TRAINING

MSc in Computer Science
EPFL [09/2022 – Current]

Address: Rte Cantonale, , 1015 Lausanne (Switzerland)
Website: https://www.epfl.ch/en/
Final grade: CGPA 5.5/6.0

Computer Engineer
Sabanci University [17/09/2017 – 25/06/2021]

Address: Orta, Üniversite Cd., Tuzla/İstanbul, 34956 Istanbul (Türkiye)
Website: https://www.sabanciuniv.edu/en
Final grade: 3.84/4.00

Electronics Engineer
Sabanci University [17/09/2017 – 04/02/2022]

Address: Orta, Üniversite Cd., Tuzla/İstanbul, 34956 Istanbul (Türkiye)
Website: https://www.sabanciuniv.edu/en
Final grade: 3.84/4.00

WORK EXPERIENCE

Software Developer
Evet Tech [12/2021 – 06/2022]

Country: Türkiye

Worked primarily as a .NET Developer. Utilized ASP.NET framework along with MVC structure to:
1. develop new web pages using JQuery and razor web pages in older projects. And ReactJS in newer projects.
2. create, maintain and consume azure functions and deploy new functions apps to the Microsoft Azure portal
3. monitored, debugged and optimized an already existing large .NET codebase and MS SQL DB.

Web developer
Spiky AI [09/2020 – 11/2022]

Used several frontend and backend frameworks to design and develop admin panels, product websites. (VueJS, NuxtJS, ReactJS, Django Python, Spring Boot Java)

Web developer
Vaysis [06/2021 – 11/2021]

Country: Türkiye

Used spring boot Java for the backend and ReactJS with TypeScript for the frontend to develop dashboards, landing pages and commercial websites. Utilized Nx Project structure.

Software developer
P.I. Works [06/2020 – 09/2020]

Country: Türkiye

Summer Internship,
- Worked on projects involving both telecommunications layer and software layer.
- Learned about database management, audio streaming, how to evaluate the performance of a wireless network and how to improve on it.
- Learned about the commonly faced problems of telecommunication systems and their solutions.
- Reviewed and analyzed performance of wireless communication systems.

University teaching assistant
Sabanci University [09/2018 – 06/2020]

Country: Türkiye

Worked as an Undergraduate level teaching assistant for many courses throughout my education:

Undergraduate Level Teaching Assistant for Data Structures Course(CS 300)[09.2019 - 06.2020]
- Prepared and graded homework.
- Held office hours, recitations, conducted review and discussion sessions weekly to help students with concepts they were struggling with.

Undergraduate Level Teaching Assistant for Circuits II Course(EE 202) [01.2020 - 06.2020]
- Worked as a supervisor in lab hours to help students implement topics learned in lectures.
- Graded and prepared lab assignments and homework.
- Held office hours and discussion sessions to help students with assignments.

Undergraduate Level Teaching Assistant for Calculus II Course [09.2018 - 01.2019]
- Held recitations to solve example questions and re-explain topics went over in the lectures.
- Graded homework and quizzes.
- Proctored exams.

LANGUAGE SKILLS

Mother tongue(s): **Turkish**

Other language(s):

English	**French**
LISTENING C2 **READING** C2 **WRITING** C2	**LISTENING** B2 **READING** B2 **WRITING** B2
SPOKEN PRODUCTION C2 **SPOKEN INTERACTION** C2	**SPOKEN PRODUCTION** B2 **SPOKEN INTERACTION** B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

PROJECTS

Satellite Visualizer
[03/2023 – 06/2023]

A website that visualizes the satellites orbiting the Earth, done as a project for Data Visualization course at EPFL

Link: https://com-480-data-visualization.github.io/project-2023-astro-vizards/

Time series student performance prediction

I along with 2 other team members, worked with data provided by a start up (lernnavi), to come up with, train and test several machine learning algorithms to cluster students using the platform into groups and try to predict their performances of week N, using the data available from weeks 1...N-1

Link: https://github.com/ML4BD/final-submission-uclumasa

Brain Fingerprinting and Task Decoding via Graph Structure Learning

[10/2022 – 01/2023]

A project that aims to investigate the use of graph structure learning (GSL) methods to construct alternative graphs to so called functional connectivity (FC) graphs where a brain graph is derived based on pairwise functional correlation between activity in brain regions. Conducted as a course project for ML course at EPFL under the supervision of Medical Image processing Lab.

Link: https://drive.google.com/file/d/1sqEazi1b93ltYfkUFU4iQcDDFkNtxzZX/view?usp=sharing

Digital Game Library Database Application

[09/2021 – 01/2022]

Developed a game library database application utilizing ReactJS, along with express for setting up endpoints for the frontend application. Utilized ER Model for designing, concepts of 3rd Normal form for refining and MySQL for implementing the database.

Writing & Testing iXRD on-board software & the interface software:

[03/2021 – 09/2021]

Aim: To write the codes to operate iXRD in orbit with the MSP 430 microprocessor on board. To conduct tests with an interface software running on PC written in C#. (Program for undergraduate research Sabanci Uni.)

Image segmentation for graphical user interfaces:

[09/2020 – 01/2021]

Develop an image segmentation approach for partitioning the digital images of screens into multiple segments, each of which represents a GUI object, with the goal of automating the process of interface verification of smart TVs.

Job satisfaction prediction using machine learning

[11/2020 – 01/2021]

With a group of 4, evaluated and implemented several machine learning algorithms using Python to predict the Job Satisfaction column of a "Kaggler" given various other information such as education level, job description etc.

E-commerce website design

[03/2020 – 06/2020]

As the software team lead, with a group of 7, used agile development, to design and develop an E-Commerce website as a course project. Utilized Java (JPA, JDBC, JAXRS), Javascript(JQuery), JSP and Wildfly 18.0.1.

Link: https://github.com/aybarsyazici/Web-Store-Project

NP problem analysis

[09/2019 – 01/2020]

Utilizing python along with jupyter notebook, designed and evaluated an algorithm to solve an NP Problem known as the Clique problem, in exponential time (Group Work).

Op-amp design

[12/2019 – 01/2020]

Designed and evaluated a two-stage operational amplifier using Cadence Virtuoso Analog Design Environment

Vehicle collisions in NYC data analysis

[04/2019 – 06/2019]

Analysed various data sets for NYC, designed, developed, and evaluated a program which utilizes several Machine Learning Algorithms to guess the collision chance.

Link: https://gist.github.com/aybarsyazici/967769f7585d1a8d1f2916988e26b077

BJT Multistage amplifier design

[05/2019 – 06/2019]

Designed and evaluated a multisage Bipolar Junction Transistor Amplifier using LTSpice software

Link: https://drive.google.com/file/d/1a1RvLzCSZevMQctW0jok1l36TzA9ycpC/view?usp=sharing

Sine wave generation

[04/2019 – 05/2019]

Designed a circuit with the goal of generating sine waves with the utilization of a Schmitt Triger. Used LTSpice software

Link: https://drive.google.com/file/d/1i49klwKooYqhqsk7LwLJ7WmP-_EVftxg/view?usp=sharing

HONOURS AND AWARDS

High honor certificate

Sabanci University [12/2017]

High honor certificate awarded for academic success during a semester in Sabanci University.

High honor certificate

Sabanci University [06/2018]

High honor certificate awarded for academic success during a semester in Sabanci University.

High honor certificate

Sabanci University [12/2018]

High honor certificate awarded for academic success during a semester in Sabanci University.

High honor certificate

Sabanci University [06/2019]

High honor certificate awarded for academic success during a semester in Sabanci University.

High honor certificate

Sabanci University [12/2019]

High honor certificate awarded for academic success during a semester in Sabanci University.

High honor certificate

Sabanci University [06/2020]

High honor certificate awarded for academic success during a semester in Sabanci University.

High honor certificate

Sabanci University [01/2022]

High honor certificate awarded for academic success during a semester in Sabanci University.

HOBBIES AND INTERESTS

Algorithms

Web Development

Mathematics

Machine Learning

Data Structures

Integrated Circuit Design

Embedded Systems

VOLUNTEERING

Integrated Management Systems Education

Completed education offered by Turkish standards institution

CIP(Civic Involvement Projects)

[Sabanci University, Turkey]

Helped the local primary schools with various activities aimed to develop better understanding of human rights. (2017-2018)

Catering for the poor

[Saint Joseph French HighSchool, Kadıköy, Turkey]

Voluntary work offered to students in Saint Joseph French Highschool, which involved going around town to help the poor and cater to their needs.

Hospital work

[Ersoy Hospital, Istanbul / Turkey]

Voluntary work at Ersoy Hospital, Istanbul/Turkey