

SERHAN YILMAZ

serhanyilmaz.me · srhnylmz14@gmail.com · github.com/serhanyilmaz · <https://www.linkedin.com/in/yilmaz-serhan>

EDUCATION

Sabanci University

Bachelor of Science in Computer Science

Istanbul, Turkey

Sep 2021 - Jun 2025

- cGPA: **3.75**/4.0
- Ranked **top 0.02%** among 2.9 million students in the National University Entrance Exam.

WORK/RESEARCH EXPERIENCE

École Polytechnique Fédérale de Lausanne

Incoming Summer Intern

Lausanne, Switzerland

Jun 2023 - Sep 2023

- Selected as a summer intern under the extremely selective Summer@EPFL programme.
- Studying Privacy-Preserving Byzantine Machine Learning Applications under the supervision of Prof. Rachid Guerraoui in the Distributed Computing Lab.

Sabanci University

CS201 Learning Assistant

Istanbul, Turkey

Sep 2022 - Jan 2023

- Holding weekly recitations and office hours to cover the week's material in the course and assist the students in object-oriented programming.
- Helping in writing homework assignments for the students.

Boston University

Undergraduate Research Assistant

Boston, MA (Remote)

Jun 2022 - Sep 2022

- Studied Threat Modeling and Component Design under the supervision of Prof. Yazicigil.
- Created a dataset of methods from over **10** articles and an algorithm that categorizes threat models based on criteria such as energy efficiency.
- Developed a helper tool using *C++* to design secure systems&circuits, according to the designer's needs.
- Explored methods to further develop the tool into an open-access website for developers to use.

JobAgent SE

Intern

Stockholm, Sweden (Remote)

Jul 2020 - Sep 2020

- Explored the data provided by the ESCO dataset, including **3008** occupations and **13890** skills.
- **Visualized** the data relating to the skill sets required for jobs using pandas and numpy.
- Created an algorithm that helps matching people with jobs according to their skill sets.

Koc University - Summer Research Program

Undergraduate Research Assistant

Istanbul, Turkey (Remote)

Jun 2020 - Jul 2020

- Attended a 2-week machine learning camp and explored methods to generate a cataract detection algorithm.
- Developed a machine learning algorithm using numpy and tensorflow based on a kaggle dataset of **600** retina pictures.

AWARDS & ACTIVITIES

Sakip Sabanci Encouragement Scholarship Award for Outstanding Success

Ranked top **5%** among the students in my term.

Sabanci University

Sep 2022

Young Innovation in Times of Crisis Award

Selected in the **1st place** among all projects.

The Royal Swedish Academy of Engineering Sciences

May 2020

Young Member of the New York Academy of Sciences Award

Admitted into "The Junior Academy" program with an acceptance rate of **8%**.

The New York Academy of Sciences

Sep 2019

PROJECTS

Combating Covid-19 | Python

- Developed and visualized an algorithm to match job seekers with job providers in the Covid-19 outbreak.

Cyber IoT Security Advanced Algorithm

- Developed an algorithm to scan through attached hardware ports to prevent data leak in IoT devices.

SKILLS

Languages

Python, Arduino, HTML/CSS, C/C++

Libraries & Tools

Scikit-Learn, Pandas, GeoPandas, Matplotlib, NumPy, Tensorflow