

SERHAN YILMAZ

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EDUCATION

Sabanci University

Bachelor of Science in Computer Science

Istanbul, Turkey

Sep 2021 - Jun 2025

- cGPA: **3.88**/4.0
- Dean's List: High Honors.
- Ranked **top 0.02%** among 2.9 million students in the National University Entrance Exam.

WORK/RESEARCH EXPERIENCE

Sabanci University

CS201 Learning Assistant

Istanbul, Turkey

Sep 2022 - Present

- Selected as a learning assistant for the course CS201 - Introduction to Programming for outstanding achievement in the course.
- Holding weekly recitation 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.
- Wrote a final report and a presentation, presented virtually to the whole research team at Koc University.
- Explored methods to turn the project into an iOS app.

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

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

Libraries & Tools

PyTorch, Pandas, GeoPandas, Matplotlib, NumPy, Tensorflow