

# SERHAN YILMAZ

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## 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