SERHAN YILMAZ

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

EDUCATION

Sabanci University — Istanbul, Turkey
Bachelor of Science in Computer Science — **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 — Lausanne, Switzerland
Incoming Summer Intern — 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 — Istanbul, Turkey
CS201 Learning Assistant — 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 — Boston, MA (Remote)
Undergraduate Research Assistant — 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 — Stockholm, Sweden (Remote)
Intern — 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 — Istanbul, Turkey (Remote)
Undergraduate Research Assistant — 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 — Sabanci University
Ranked top **5%** among the students in my term. — Sep 2022

Young Innovation in Times of Crisis Award — The Royal Swedish Academy of Engineering Sciences
Selected in the **1st place** among all projects. — May 2020

Young Member of the New York Academy of Sciences Award — The New York Academy of Sciences
Admitted into "The Junior Academy" program with an acceptation rate of **8%.** — 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