Güneş Başak Özgün

Updated: October 23, 2021

CONTACT INFORMATION

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SUMMARY

I have strong communication, teamwork and collaborative skills stemming from various interdisciplinary project and work experiences. I am motivated by working with people from different backgrounds, building solutions and innovative ideas.

TECHNICAL & LANGUAGE SKILLS

*P*rogramming: C#/C++, Python, HTML, Javascript, SQL, MATLAB
*E*xperience in: Agile & Scrum, Kanban, Jira, Git, Django, Linux/Unix
*L*anguages: Turkish (Native), English (TOEFL 109/120), Spanish (DELE A2), French (A0)

EDUCATION

EPFL, Lausanne, Switzerland — Sept 2021 - July 2023 (expected)
MSc., Computer Science

- Related Coursework: Machine Learning, Digital Education, Information Systems and Security, TCP/IP

Sabancı University, Istanbul, Turkey — 2016 - 2021
B.Sc., Computer Science & Engineering. (Double major) GPA: **3.96/4** *, Rank:* **3/133**.
B.Sc., Mechatronics Engineering. GPA: **3.95/4** *, Rank:* **2/39**.

- Related Coursework: Database Systems, Artificial Intelligence, Operating Systems, Computer Networks, Software Engineering, Cryptography, Introduction to Data Science, Programming Languages, Discrete Mathematics, Entrepr. Skills Workshop I, Introduction to Management
- Thesis: *Application of Autoencoder Neural Networks for CFD Problems*, supervised by Prof. Dr. Serhat Yeşilyurt

WORK EXPERIENCE

Denebunu, Istanbul, Turkey — Feb 2021 - June 2021
Software Development Intern

- Solved 40 back-end problems and 7 bugs using **Django, HTML, Python and JavaScript.**
- Designed and implemented Press page to display interviews and news articles published in the mainstream media about Denebunu.

Sabancı University, Istanbul, Turkey — Jan 2019 - May 2019 & Jan 2020 - May 2020
Learning Assistant

- Assisted CS204 Advanced Programming **(C++)** students with their course related questions and homework.
- Coordinated office hour sections for 250+ students and 10+ assistants.

Carnegie Mellon University, Pittsburgh, PA, USA — June 2019 - Aug 2019
Summer Research Intern

- Built a 3D printed boat in millimeter scale using **SolidWorks** which works with Magnetohydrodynamics propulsion under the supervision of Dr.Fatma Zeynep Temel.
- Simulated the magnetic field distribution given the actuator design and produced force prediction in **MATLAB**.

SELECTED PROJECTS

Sabancı University, Istanbul, Turkey — Feb 2021 - June 2021
VIRAL Lab, Binaural Music Characteristics

- Analyzed the frequency characteristics of binaural tracks and the factors that affect their quality and popularity using **Python** under the supervision of Dr.Onur Varol.

Sabancı University, Istanbul, Turkey Sept 2020 - Jan 2021
Software Engineering Course Project - Cook It Yourself

- Built web and mobile applications for a food delivery service using **Django**, **React**, **HTML, Javascript, SQLite** and **Firebase** for notification system and **Recombee** to generate targeted product recommendations.
- Took roles as a front-end engineer, product manager and ScrumMaster in a team of five.

Sabancı University, Istanbul, Turkey Sept 2020 - Jan 2021
Computer Networks Course Project - File Sharing Network

- Implemented server and client side of a file sending system using sockets using **C#** where clients can upload, download, delete and share files.

Sabancı University, Istanbul, Turkey Sept 2019 - June 2020
Application of Autoencoder Neural Networks for CFD Problems

- Built an Autoencoder Neural Network that predicts the optimal flow with root mean squared error of 3.2% and 1.83% for drag coefficient and lift coefficient, respectively for a given system by using **MATLAB**.

Sabancı University, Istanbul, Turkey Sept 2019 - Jan 2020
Machine Learning Course Project - Bank Loan Repayment Predictor

- Implemented a machine learning model to predict if the applicant will pay the loan back or not using Adaboosted random forest model and PCA for dimensionality reduction with an F-1 score of 0.80136.

Honors and Awards

Tuition Scholarship for outstanding GPA, Sabancı University 2018 - 2021
Sakıp Sabancı Tuition Scholarship, Sabancı University 2017 - 2018
Dean's High Honor List, Sabancı University 2016 - 2021

Voluntary Work

Civic Involvement Projects, Istanbul Turkey Sept 2016 - June 2017

- Prepared the questions and answers of mind games to primary school kids and motivated them to do critical thinking and advance their problem-solving skills.
- Visited an animal shelter in Tuzla and walked dogs every week.

Interests

Playing the piano (13 years), reading mythological novels, sailing and creating new recipes