Güneş Başak Özgün

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CONTACT
INFORMATION
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SKILLS
Programming: C++ (Intermediate), Python (Intermediate), HTML (Intermediate), MATLAB(Intermediate), JavaScript (Beginner), SQL (Beginner)
Experience in: Agile & Scrum, Kanban, Jira, Git, Django
Languages: Turkish (Native), English (TOEFL 109/120), French (A1)

EDUCATION
École Polytechnique Fédérale de Lausanne, Switzerland   Sept 2021 - July 2023 (expected)
MSc., Computer Science GPA: **5.36/6**
Minor in Management Technology and Entrepreneurship

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***.*

- 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. [Link]

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
École Polytechnique Fédérale de Lausanne, Switzerland   Feb 2022 - July 2022
Machine Learning & Optimization Lab, An intuitive front end to enable general public use of DISCO

- Built a new front end with **Vue** and **HTML** to simplify the navigation and user experience.
- Created the brand identity for DISCO (DIStributed COllaborative Learning) by logo and illustration designs. [Link]

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 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**.

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 (15 years), reading mythology books, sailing and creating new recipes