

Fatih Durmaz

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Portfolio: <https://fthdrmmzzz.github.io/portfolio/>

Education

10/2017 – Present  ISTANBUL TURKEY

Sabanci University (Full Scholarship)

Computer Science and Engineering. GPA: 3.93/4.00. Dean's High Honor List (4 times). top 4% in the faculty

Skills

Languages: English (Advanced), Turkish (Native), German (Elementary)

Computer Skills: Matplotlib, SciPy, Pandas, Facebook Prophet, NumPy, C++, OOP, Algorithms, Xilinx, VHDL Verilog, SQL, MySQL, PostgreSQL, Flex & Bison, C, .Net Framework, C#, Git Java & Android Studio JavaScript, Java Spring Framework, Html & CSS, Django, Script, Testing,

Experience

8/2021 – 10/2021  ISTANBUL TURKEY

Tubitak Bilgem YTE - Software Developer Intern

- Developed both frontend and backend of an event handler project. Achieved to come up with a stable working project with authentication-authorization.
- Backend is implemented with **Spring Boot**. Frontend is implemented with **React.js** and **Material UI** components are used. **PostgreSQL** is used as database. Authentication is implemented by using **JWT** tokens & Spring Security.

06/2020 – 08/2020  KOCAELI TURKEY

Faraday Networks - Software Engineering Intern

- Analyzed given **time-series** and extracted a useful sample using **PostgreSQL, Pandas, NumPy & SciPy**. Trained Machine Learning model with given time-series and observed abnormalities. Wrote a script that notifies when abnormality is encountered. Used **Facebook Prophet**.
- Achieved to classify **SQL queries** to update the product without maintaining. Wrote a script that classifies queries automatically.

02/2020 – 06/2020  ISTANBUL TURKEY

Sabanci University - Research Assistant

- Research** in Matching Problem Algorithms and development of a heuristic approximation algorithm.
- Developed a scalable programming architecture for the algorithm and implemented the algorithm in **python**.
- Visualization and **analytics** of the results of the implementation & applications in real life.

Gained Skills: research, machine learning, Algorithms, python, NP-complete, NP, Data Science, Pandas, Data mining, Academy, Project, Teamwork

10/2019 – 01/2020  ISTANBUL TURKEY

Sabanci University - Student Learning Assistant

- Provided administrative support to the Professor Kamer Kaya. Did research on **smart pointers** & pointers and prepared lecture notes that have detailed explanations (in **C++**).
- Improved student's success by providing discussion questions about each topic in advanced programming lecture.

Selected Projects

09/2021 – Present  ISTANBUL TURKEY

CPU vulnerabilities

- Working on detection of side-channel attacks. Making research and observation with statical analysis approach. Used: Linux, C, C++, Python (for automated scripts)

04/2020 – 06/2021  ISTANBUL TURKEY

Self-Health / Tele-Health Product

- Developed a prototype Telehealth product as a team. Designed the interface of the app.

09/2020 – 01/2021  ISTANBUL TURKEY

.NET Cloud Simulation (basic)

- Scheduled working times and set virtual deadlines as a team. Developed client & server interfaces in **C#**. Developed download, transfer, copy, delete services for the client. Implemented encrypted file transfer using encryption algorithms

09/2020 – 01/2021  ISTANBUL TURKEY

Min Set Cover Problem Analysis

- As a team, Analyzed the MinSetCover problem and came up with a heuristic algorithm. Found an asymptotic bound for the algorithm then compared the performance of algorithm with implementation. Used **python, SciPy, pandas** to test the implementation. Tested with Blackbox and Whitebox methods. Then presented the work.

Extracurricular Activities

SU-SIAM Student Chapter – Co-Founder & Board Member (2021 – Present) |

Tea Talks with CEOs – Member (2017 - 2019) |

Sabanci University Robotics Club – Member (2017 - 2018) |

Seahawks American Football Team – Player (2017 - 2018) |