Furkan K. **Yıldırım**

COMPUTER SCIENCE & INDUSTIAL ENGINEERING · JUNIOR STUDENT

Orta Mah. Üniversite Cd. Sabancı Üniversitesi, Tuzla/İstanbul

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"Be a yardstick of quality. Some people aren't used to an environment where excellence is expected."

Education

Double Major SABANCI UNIVERSITY   *İstanbul, Turkey*

B.S. IN COMPUTER SCIENCE & INDUSTRIAL ENGINEERING (DOUBLE MAJOR)   *Sep. 2019 - Expected: Jun. 2024*

- **Computer Science Related Coursework:** Software Engineering, Operating Systems, Database Systems, Mobile Application Development, Data Structures & Algorithms, Data Analysis, Web Crawling, Logic & Digital Systems.
- **Industrial Engineering Related Coursework:** Operation Research, Decision Economics, Simulations.

Skills

Soft Skills	Communication, Teamwork, Leadership, Problem-solving, Attention to Detail
Front-end	Flutter, React Native, HTML5, CSS
Back-end	Flask, FastAPI, REST API, Firebase
Programming	Python, C++, C#, JavaScript, Dart, SQL, Verilog
Other	Discrete Event Simulation, Vehicle Routing Problems, Mobile Application Development, Web Development, Agile Software Development, Object Oriented Programming, Web crawling, MySQL, PostgreSQL MongoDB, Redis, Git, Jira, Miro, Docker

Work Experience

Getir Online Market   *Istanbul, Turkey*

ALGORITHM DEVELOPER INTERN   *Apr. 2022 - Present*

- Working on optimization test and run-time performances of OSRM and VROOM results with Discrete Event Simulation on Getir Market platform using Prefect and Python libraries Typer, FastAPI, Numpy and Pandas.
- Working on visualizing data results from VROOM, OSRM and New Relic on the Getir Market platform using Python.
- Developing unit tests, developing integration tests and refactoring codebases for microservices of the Getir Market platform using Python.

Sabancı University   *Istanbul, Turkey*

LEARNING & TEACHING ASSISTANT - DATA STRUCTURE COURSE   *Feb. 2022 - Jun. 2022*

- Assisted Instructor Gülşen Demiröz on Data Structures Course, gave homework, graded, and helped students on assignments, also held weekly office hours.

CRS Software   *Istanbul, Turkey*

SOFTWARE ENGINEER INTERN   *Jan. 2022 - Feb. 2022*

- Created and developed an e-commerce platform with .NET using C# language during the internship.

Sabancı University   *Istanbul, Turkey*

LEARNING ASSISTANT - COMPUTATIONAL APPROACHING TO PROBLEM SOLVING COURSE   *Oct. 2021 - Jan. 2022*

- Assisted students with their Python learning through weekly recitation sessions in the Computational Approaching to Problem Solving Course.
- Under the supervision of Prof. İnanç Arın, extracted Turkish texts from PDF images using Python and certain APIs with Sabancı University Center of Excellence in Data Analytics.

Hyperlink Digital Library   *Istanbul, Turkey*

SOFTWARE ENGINEER   *Jun. 2021 - Jan. 2022*

- Developed a cross-platform mobile application of an e-Book Library with Flutter. Deployed at **Google Play Store** and **App Store** on January'22.
- Helped develop Semantic Search API in an e-Book Library with Python Flask, Redis and MySQL.

Projects

Voidture E-Commerce Platform

LEAD MOBILE APPLICATION DEVELOPER & BACK-END DEVELOPER

- Developed an e-commerce mobile application for Furniture using Flutter and led the mobile application team.
- Took part in the demo presentation of the application. Used Jira and Bitbucket to maintain the project.
- Worked on the service development part of the application using FastAPI, PostgreSQL, Redis and Docker.

Analyzing Prerequisites of Courses, Sabancı University

ALGORITHM & BACK-END DEVELOPER

- Under the supervision of Prof. Hüsnü Yenigün, developed an algorithm and a script with Python to collect and analyze the prerequisites of Sabancı University courses.
- Visualized the analyzed data using JavaScript and Python Flask. Published source code of the project on **GitHub** and deployed at **Heroku**.

SUchedule Mobile Application

FULL-STACK DEVELOPER

- Developed a mobile application (SUchedule) with React Native, allowing Sabancı University students to create their schedules with a friendly user interface.
- Developed the back-end service of this application with Python Flask and published source code of backend service on **GitHub**.
- Published source code of the project on **GitHub** and deployed at **Google Play Store** and **App Store**. Reached 1000+ downloads.

WakeGuard, Location Based Alarm Application

MOBILE APPLICATION DEVELOPER

- Created location tracking and alarm application with React Native and Firebase named WakeGuard and leading the project.
- Published source code of the project on **GitHub** and deployed at **Google Play Store** and **App Store**. Reached 500+ downloads.

Digital Business Card Mobile Application

FULL-STACK DEVELOPER

- Created, developed, operating, and deploying a stand-alone business card web and mobile application where users can keep and share all their social media accounts with Python Flask and React Native using QR Code and NFC technologies.

FlixWatcher Database Project

WEB CRAWLING, DATABASE DEVELOPER

- Created a MySQL database of movies and TV shows that will be removed from Netflix in the near future and a linked website to process the database entries. Used Python Request and BeautifulSoup to gather movie and TV show data from some websites and leaded the project.

Taxi Booking Mobile Application

MOBILE APPLICATION DEVELOPER TEAM LEADER OF PROJECT

- Led the project for developing a taxi reservation application with React Native such as Uber and Bitaksi for Alo Crash Damage Assessment Solution Partnership and Consulting Services Company.

Competitions & Awards

COMPETITIONS

2022	**ITU ACM Algocomp'22,** Ranked 15th with my team among 300+ teams in the competition which is an algorithm-based coding competition.	*Turkey-Wide*
2021	**Inzva Hackerspace,** Ranked 1st at Sabancı University and 9th on overall with my team among 200+ teams in the competition which is an algorithm-based coding competition.	*Turkey-Wide*

HONORS

2022	**Sakıp Sabancı %100 Encouragement Scholarship**, Awarded for academic achievement	*Turkey-Wide*
2022	**Dean's High Honor List,** Achieving grade more than 3.5 over 4.0.	*Turkey-Wide*
2021	**Dean's High Honor List,** Achieving grade more than 3.5 over 4.0.	*Turkey-Wide*
2019	**High Success Scholarship**, Ranked 1365th among 1,500,000+ students (0.09 percentile)in National University Entrance Exam (YKS 2019).	*Turkey-Wide*

Extracurricular Activity

2019-2020	**Civic Involvement Projects,** Contributed to self-confidence development of high school students.	*Sabancı University*
2019-2022	**Director of Growth,** Sabancı University (SU) Computer Club.	*Sabancı University*
2020-2022	**Active Member,** Sabancı University (SU) IEEE Student Branch.	*Sabancı University*

Swimming, table tennis, traveling, motorsports (especially F1), watching film and TV series,

References

Gülşen Demiröz

INSTRUCTOR AT SABANCI UNIVERSITY

- Faculty of Engineering and Natural Sciences - Sabancı University, FENS Building, Office L015
- **Phone**: +90 (532) 585 61 50
- **Email**: gulsen.demiroz@sabanciuniv.edu
- **Relationship**: I was her Learning & Teaching Assistant in her CS300 Data Structures course.