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Education

Sabancı University

İstanbul, Turkey

M.Sc. in Industrial Engineering - Full Scholarship

Feb. 2024 - Expected: Jan. 2026

• Featured Courses: Facility Design and Analysis, Entrepreneurship, Operations Research and Data Mining

Sabancı University

Other

İstanbul, Turkey

B.S. IN COMPUTER SCIENCE & INDUSTRIAL ENGINEERING (DROPPED OUT DUE TO STARTING M.Sc.) - BUSINESS ANALYTICS

Sep. 2019 - Jan. 2024

- Computer Science Featured Courses: Data Structures & Algorithms, Software Engineering, Programming Languages, Operating Systems, Database Systems, Network Systems, Mobile Application Development, Data Visualization & Analysis, Machine Learning, Logic & Digital System Design, Cybersecurity Practices and Applications.
- Industrial Engineering Featured Courses: Operation Research, Business Strategy, Simulations, Decision Economics, Information Systems, Logistic System Planing & Design, Decision Making Under Uncertainty, Management Information Systems.

Skills

Front-end React, React Native, Flutter, HTML5, CSS FastAPI, Flask, ASP.NET, REST API, Firebase **Back-end**

Programming Python, C++, C#, R, JavaScript, Dart, SQL, Verilog, Rockwell Arena

> Discrete Event Simulation, Vehicle Routing Problems, Software Architecture & Design, Mobile Application Development, Web Development, Agile Software Development, Data Analysis, CI & CD

Professional Experience _____

Optiviam Istanbul, Turkey

FOUNDER

Aug. 2023 - Present

- Developed a Vehicle Routing System Software that uses mathematical models and heuristic approaches to solve companies' complex logistics problems.
- Worked with Sabanci University and Sabanci University SUCool (Start-Up Company League) while creating this system.
- Used Python's FastAPI, and JavaScript's React and React Native Frameworks to develop this software. Also performed CI&CD operations using Docker and Kubernetes on Google Cloud and AWS services.

Getir Istanbul, Turkey

ALGORITHM DEVELOPER Nov. 2022 - Nov. 2023

- Took role in the improvement and development of micro-services that receive 1.2M orders per day by using Python.
- Participated in the development of business logic algorithms to deliver orders in the most efficient way in GetirMarket domain.
- Maintained in the development of Discrete Event Simulation to optimizing test and run-time performances of the algorithms by using Python, FastAPI, Numpy and Pandas in GetirMarket domain.
- Worked on visualizing and analyzing data results from VROOM, OSRM and New Relic on the Getir Market platform using Python.

ALGORITHM DEVELOPER INTERN Apr. 2022 - Nov. 2022

- · Worked on optimization test and run-time performances of OSRM and VROOM results with Discrete Event Simulation on Getir Market platform using Python libraries FastAPI, Numpy and Pandas.
- Developed unit tests, developed integration tests and refactored code-bases for micro-services of the Getir Market platform using Python.

Sabancı University Istanbul, Turkey

LEARNING & TEACHING ASSISTANT

Oct. 2021 - Jun. 2022

- · Assisted Instructor Gülşen Demiröz on Data Structures Course, gave homework, graded, and helped students on assignments, also held weekly
- Assisted students with their Python learning through weekly recitation sessions in the Computational Approaching to Problem Solving Course.
- Under the supervision of Prof. inanc Arın, extracted Turkish texts from PDF images using Python and certain API's with Sabancı University Center of Excellence in Data Analytic.

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.
- Gained information on how to do market research and processes of system design.

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

Solving the Multi-layer Thin Films Problem with Optimization Techniques

RESEARCH STUDENT Jun. 2023 - Jan. 2024

• Under the supervision on Prof. Dr. Burak Kocuk and within the scope of Sabancı PURE program, aimed to optimize the reflectivity of a metallic substrate by carefully selecting and layering dielectric materials, utilizing mixed-integer nonlinear programming techniques using Python.

• As a result of the developed models and heuristic approaches, a producible thin film with a reflectance level of 99.8% in the visible light wavelength range was created.

Delivery Route Optimization at E-Bebek Company

TEAM LEADER - ALGORITHM & BACK-END DEVELOPER

Oct. 2022 - Jun. 2023

- Under the supervision of Prof. Dr. Bülent Çatay for graduation project, developing an algorithm that, deal with Vehicle Routing Problem (VRP) variant that matches orders with the delivery vehicles in E-Bebek Company and determines visualizes the vehicle routes, with Python.
- As a result of the analyzes made after the developments, it is expected that the cost will be reduced by 20% and 1.2M₺ per year with the routes created using the new model.

Voidture, E-Commerce Platform

LEAD MOBILE APPLICATION DEVELOPER & BACK-END DEVELOPER

Feb. 2022 - Jun. 2022

- 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.

SUprerequisites, Analyzing Prerequisites of Courses of Sabanci University

ALGORITHM & BACK-END DEVELOPER

Oct. 2021 - Jan. 2022

• Under the supervision of Prof. Dr. 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.

SUchedule, Mobile Application

FULL-STACK DEVELOPER

Sep. 2021 - Oct. 2021

- Developed a mobile application (SUchedule) with React Native and back-end service with Python Flask, allowing Sabanci University students
 to create their schedules with a friendly user interface.
- Deployed the project at Google Play Store and App Store. Reached 2000+ downloads with 4.9/5 ranks.

WakeGuard, Location Based Alarm Application

MOBILE APPLICATION DEVELOPER

Jan. 2021 - Feb. 2021

- Created location tracking and alarm application with React Native and Firebase named WakeGuard and leading the project.
- Deployed the project at Google Play Store and App Store. Reached 1000+ downloads with 4.8/5 ranks.

Competitions & Honors & Certificates _

COMPETITIONS

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

Honors

2023	Sakıp Sabancı %100 Encouragement Scholarship, Awarded for academic achievement	Turkey-Wide
2023	Dean's High Honor List, Achieving grade more than 3.5 over 4.0.	Turkey-Wide
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	Turkey-Wide
	University Entrance Exam (YKS 2019).	rurkey-wide