



## CONTACT

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## SKILLS

Python

→ Django

→ Pandas, NumPy

→ Pygame

→ FastAPI

C/C++ Programming

Java

JavaScript

SQL

## TOOLS

Spyder | PyCharm | Notepad++ | Vim

## VERSION CONTROL SYSTEM

Git

## LANGUAGES

English: proficient C2

Turkish: native speaker

Polish: intermediate B1

Japanese: elementary A2

## ABOUT ME

I am 4th year, soon to graduate, **Computer Engineering** student at **Middle East Technical University** interested in applying for the work position. I would like to work with **Python/C++** or in **Java/JavaScript/SQL** as well as **develop new programming skills**. Moreover, since I don't have many courses left, I am flexible and able to **work part-time**: 1/2 or 3/4 time. My cumulative experience in the sector of professional programming and IT is **6 months of practice** and **1 year 7 months of work**.

## WORK EXPERIENCE

### Backend Developer:

2023 May - 2024 January

### Parabol

[9 months]

| Ankara

| Turkey

Technologies: REST APIs, GTFS, Pandas, FastAPI, PostgreSQL, Python

- Developing algorithms for optimization for public transportation using Google's General Transit Feed Specification (GTFS).
- Algorithmically producing stops from the city stop data for given route.
- Optimization for origin-destination algorithms.
- Developing and testing REST API endpoints.
- Backend development with FastAPI.

📄 **References**  
Haldun Yıldız  
Engineering  
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paraboly.com

### Instructor:

2023 March - December

### Kodland

[10 months]

| remote

| Turkey

Technologies: Python, Turtle, Pygame Zero

Python instructor at online classes. Students begin by learning the fundamentals of programming and graduate from the course by obtaining the necessary skills to develop their games.

### Intern:

2022 July - September

### MBS Systems s.c.

[3 months]

| Elbląg

| Poland

Technologies: Python, Django

Writing unit tests for Django models with test driven development. Gained experience in foreign work environment.

### Intern:

2021 July - September

### Netaş Telecommunication Inc.

[3 months]

| Ankara

| Turkey

Technologies: Javascript, Node.JS, Gherkin, Cucumber.JS

Writing end-to-end tests for Export Compliance Screening System in Gherkin language, using Cucumber.JS API functions in Node.JS.

## PROJECTS

**Formula 1 Fantasy League:** An online guessing game for Formula 1 developed in Python's Django framework which requires budget management and strategy skills, first and only one in Turkey, played by hundreds of people: <https://formula1turkiye.pythonanywhere.com/>

**Formula 1 Elo Project:** The analysis of 70 years of Formula 1 qualifying data using Python's Pandas library and Elo system, in order to rank the fastest drivers in history. <https://tinyurl.com/formula1turkiye/pages/elo/#en>

**SPLENDID:** Intelligent design system for the board game called Splendor, being developed through Django and Channels, it is a web application that can be played as multiplayer or against AI in real time. It uses a robust and modern authentication system and Elo rating system for ranking and fair matchmaking.

**Flagsweeper:** Multiplayer version of Minesweeper, written in Python's PyGame library.

## EDUCATION

University:

**Middle East Technical University** | Ankara | Turkey

**COMPUTER ENGINEERING**

4th year, final semester student

studies in English language

High School:

Gazi Anatolian High School

## ACTIVITIES & HOBBIES

Interested in Formula 1 and other motorsports - their history and data analysis. Wrote many articles about Formula 1 on: <http://turkf1.com> + <http://damalibayrak.com>

METU Amateur Astronomy Society - management member, responsible for design and editorship of our website: <http://gokyuzu.org>

Guitar player and songwriter in the metal band "Cainodium", performed several times on stage.

## LETTER OF MOTIVATION

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To Whom It May Concern:

I would like to apply for a part-time work position in your company. My name is Onur Arıkan, I am a 4th-year, soon to graduate, Computer Engineering student at Middle East Technical University (METU) in Ankara, Turkey.

During my studies in the spring semester, my workload in classes is approximately 8 hours per week, therefore I'm open to part-time work options - 1/2 or 3/4 working time.

During the work, I'm interested in working with Python, Django, FastAPI, Numpy, Pandas or in Java, JavaScript, SQL, and C/C++ as well as developing new programming skills.

In 2023, I worked on-site in Ankara, Turkey as a backend developer. I worked in a company that creates public transportation optimizations. During my time in this company, I wrote algorithms that track the mobility of public transportation vehicles that analyze their origin and destination frequency. Additionally, I gained an experience in FastAPI by using their backend systems.

On top of that, in 2023 I also had a remote job as a Python Instructor. My students began by learning the fundamentals of programming and graduate from the course by obtaining the necessary skills to develop their games. At the end of the course, each student was able to present a 2D game that was made in Pygame.

During my 3 months long summer internship in 2022 in Poland, I worked with Python and wrote unit tests for Django. I used test-driven development while implementing these tasks. During this internship, I gained experience in working with an international team.

During my 3 months long summer internship in 2021 in Turkey, I worked with Javascript, Node.JS, Gherkin, and Cucumber.JS and wrote end-to-end tests for Export Compliance Screening System in Gherkin language, using Cucumber.JS API functions in Node.JS.

I have extended knowledge of the Python programming language. I have a solid base in data structures, algorithms, and object-oriented paradigms. Also, I have intermediate knowledge of C/C++. I am enthusiastic about problem-solving to the point of being done in a satisfying and stable way. Other than what I learn and apply at my university, I'm passionate about using Python in my personal projects with the purpose of extending my knowledge and having fun while learning through the things I love.

For instance, I organize a Fantasy league that spans the whole Formula 1 season. The players can sign up and purchase drivers with their initial budget. During the course of the season, players manage their budget and trade drivers in each race in order to win. The league is attended by approximately 100 players and developed in Django. I also regularly analyze historical motorsports data through the Pandas library and draw meaningful conclusions. I have integrated this historical motorsports data into the database I use in my Django website.

For my senior project, with my team, I am currently developing an online multiplayer web application for a popular board game that is called Splendor. We are integrating an intelligent design system in a partially observed environment, that will use AI and machine learning algorithms.

Furthermore, I develop games through the PyGame library in order to apply my knowledge about object-oriented paradigms which helps me in skills such as managing and optimizing the growing scale of projects.

Given this information, I would like to apply for a job in your company. For further information, I appended my CV. I also included a link to my projects and repositories in [Github](http://github.com/opethef10) (<http://github.com/opethef10>).

Best regards,  
**Onur Arıkan**

## Letter Of Recommendation

To whom it may concern,

I am writing to highly recommend Onur Arkan, who served as a Backend Developer at Parabol Yazılım under my supervision from May 2023 to January 2024.

Onur played a pivotal role in our team, showcasing his expertise in backend development using FastAPI and contributing significantly to the creation and optimization of algorithms for public transportation systems. His technical skills and problem-solving abilities were crucial to the success of several projects during his tenure.

In addition to his technical proficiency, Onur demonstrated exceptional dedication and enthusiasm in his role. He consistently met tight deadlines, showing the capacity to work under pressure without compromising the quality of his work. His attention to detail was evident in the meticulous and accurate solutions he provided.

Onur's strong interpersonal and communication skills were instrumental in fostering positive working relationships with both colleagues and management. He collaborated seamlessly with the team, contributing not only to the technical aspects of the projects but also enhancing the overall work environment.

Based on his performance and contributions to Parabol Yazılım, I have no hesitation in recommending Onur Arkan for any future employment opportunities. He is a valuable asset to any team, and I believe he will excel in any professional endeavor.

Should you require any further information, please feel free to contact me.

Yours sincerely,

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