

# Mohamed Assaf

## Junior Software Developer

I'm a creative and enthusiastic software developer who loves backend development while also having a good grasp of front-end work. With a solid coding background and a genuine excitement for staying up-to-date with the latest tech trends, I'm dedicated to crafting top-notch software solutions that go above and beyond what clients expect.



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## EDUCATION

### Telecommunications and Computer Technologies

#### New Bulgarian University

10/2021 - Present

##### Courses

- Installation and maintenance of Websites
- Fundamentals of telecommunications
- Administration of user profiles and databases

### Programming

#### Software University(Softuni)

01/2021 - 01/2023

Sofia

##### Courses

- Programming with - Python
- Programming with - JavaScript
- HTML and CSS

## WORK EXPERIENCE

### Junior Software Developer Gate Institute

06/2023 - Present

Sofia

(GATE) is the first Centre of Excellence in Bulgaria to work on integrating and extending scientific excellence and innovation in priority areas.

##### Tasks

- Implemented a data scraping and processing system using Python, Pandas, and PostgreSQL for monitoring air quality. The script automates the retrieval of air quality data from specified stations in Sofia, Bulgaria, using Selenium for web interaction. It then processes the downloaded CSV files using Pandas, renaming columns and reshaping the data for insertion into a PostgreSQL database.
- Air quality map encompassing data collection, visualisation, and thermal mapping. The map uses Flask and Kotlin as the backend APIs. Angular and Leaflet are employed as the frontend technologies for displaying air quality levels visually on a thermal leaflet map. The project is also hosted on an IIS server.
- Sofia Sensors is a project made with Mapbox GL JS for visualizing sensor data in Sofia on a Mapbox map. The application allows users to show/hide map layers, including bus stops, subway stations, and a heat map. It provides graphical representations of sensor data with options to select specific sensors. The project is also hosted on IIS server in a VM: <https://twin-web.gate-ai.eu/sofiasensors/>

## TECHNOLOGIES

Python

JavaScript

HTML&CSS

IIS

Flask

DRF

SpringBoot

Maven

Selenium

PostgreSQL

Mapbox gl js

Tomcat

SPA

Wordpress

Pandas

API

## PROJECTS

### Portfolio (Html/CSS)

- Simple Portfolio about myself using HTML and CSS you can check the link above.

### Meme-Lounge(SPA)

- (SPA) for viewing and managing memes. The application, built with JavaScript, allows visitors to browse through the memes catalog. Users may register with a username, email, password, and gender, which allows them to create their posts. Post authors can also edit or delete their publications at any time.

### Client-Server-Web-Application

- I developed a multi-threaded HTTP server using Python that supports user registration, login, and profile management. This server features CAPTCHA verification for enhanced security during the registration process and manages user sessions with cookies.

### JavaScript (Daily task tracker)

- Daily tracker website where you can put tasks to do for the day, and see when you finished the task or if you did it or not. The project is made with DOM manipulations including query selectors and EventListener on click exc...

### STW (Share the world) Django

- Django/Python website where you can post pictures from the internet of places you visited, And with the package manager Django-all auth there is a Login/Register option to create, login, delete, and edit an account. Also, you can edit or delete the post if the post is yours otherwise you can only add a comment as a viewer.

## LANGUAGES

English

Full Professional Proficiency

Bulgarian

Native or Bilingual Proficiency

Arabic

Native or Bilingual Proficiency

## INTERESTS

Software

Self Improvement

Problem Solving

Continuous Learning

Web Development