Göksel Okandan

Computer Engineering Student

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Profile

I am a 4th year (senior) computer engineering student who aims to improve in software and web development (specifically back-end development). I have an education in software development algorithms and data structures along with software development. I am an open-minded individual who is eager to learn and grow alongside my colleagues. I have also participated in collaborative projects that have taught me project management and teamwork. I am interested in back-end development and web development. I am hoping to take part in projects in the field of computer engineering and software development.

Experience

Researcher *(KOU Computer Networks and Communication Laboratory)* **Kocaeli , Izmit** *09/2024 - Present*

- I am working as a Researcher (Back-End Developer) in the "Smart Monitoring and Treatment Systems in Healthcare" project led by Prof. Dr. Adnan Kavak. This project is also supported by TÜSEB (Turkish Health Institutes Association).
- I have taken part in the development team that focused between the communication between the mobile devices and the application server. I also have taken part in the design of the database.

Software Developer Intern *(Data Market Bilgi Hizmetleri A.Ş.)* **Istanbul, Maslak** *07/2024 - 07/2024*

- I did an internship for 22 business days.
- I have expanded my knowledge regarding C# and ASP .Net Core. I also have, with my co-intern, developed a prototype for a CRM (Customer Relationship Manager).

Education

Computer Engineering *Kocaeli University* **Kocaeli , Turkey** *September 2021 - Present*
Expected Graduation Year : 2025
GPA : 3.15

High School Student *Corlu Borsa Istanbul Science School* **Tekirdag , Turkey** *Serptember 2016 - June 2020*

Skills

- **C:** File Operations, Data Structures
- **Java:** Object-Oriented Programming (OOP) , Java Swing , Data Structures
- **C Sharp (C#):** OOP, Windows Forms, Multithreading, w/PostgreSQL, ASP .NET Core
- **Python:** Web (Django , FastAPI) , Web Scraping (Beautiful Soup), Natural Language Processing (NLP) (FastText, SciBERT), MongoDB
- **Web Development:** HTML , CSS , JavaScript , Typescript
- **Arduino**
- **Flutter**

References

Prof. Dr. Adnan KAVAK *(Kocaeli University / Professor of Computer Engineering)*

- **E-mail:** provided upon request

Projects

AIDCARE - Diabetes Management & Monitoring Application *(C#, PostgreSQL, Flutter, Kotlin)*

- I am working in a team that is developing a mobile application that allows diabetes patients to manage and monitor their health called AIDCARE. This application combines real-time health monitoring, predictive analytics and personalized recommendations with helpful education videos to help users maintain optimal blood glucose and educate the users of this app about their condition. The application also features several modules, including Education, Exercise, Nutrition, Notification, Advice, Risk Calculation and Decision Support and Measurement.
- I am currently working, along with my sub-team, on the back-end development of this project, which involves setting up the connection between the mobile phone the application is being used on and the application's server, database design to ensure that it is compatible with USVS (NHDD) (Ulusal Sağlık Veri Sözlüğü - National Health Data Dictionary) and making sure the data is stored in a secure way.

DiabEducation App *(Flutter, Python)*

- I have taken part in the development of a project where we manage users' diabetes educations and track their progress. A section has also been added that provides exercise recommendations using the GEMINI language model API.
- The backend of the application was developed using Python with FastAPI to create a RESTful API. The mobile part was built with Flutter. SQLite was used for local storage on the mobile side, while MongoDB was utilized on the server side.
- I developed the mobile app's broadcast receiver and the back-end's RESTful API.
- You can access the project files, source codes, and reports from this Github Link.

License Creation & Authentication Project *(C#, MS SQL Server)*

- I have developed this project during my internship with Data Market Bilgi Hizmetleri A.Ş. using C# and MS SQL Server. It allows the user to create a license and authenticate it. For security reasons, the license file (.lic) is encrypted using AES-256.
- You can access the project files, source codes, and reports from this Github Link.

Brick Breaker Game Project *(Arduino - OLED with MEGA2560)*

- I have created a brick-breaking game using Arduino and Proteus, which operates with the MEGA2560 board, where controls are made with microcontrollers.
- You can access the project files, source codes, and reports from this Github Link.

Web Scraping Project *(Python w/Django, ElasticSearch, MongoDB)*

- In this project, the objective was to gather article content using web scraping with Python and present it to users on a webpage according to predetermined criteria. The website has tools for downloading new articles automatically and filtering existing articles according to different parameters. Python was used with the Django and BeautifulSoup (Bs4) libraries, whereas the database was used with MongoDB and ElasticSearch.

Web-To-Do List *(HTML, CSS, Javascript, Typescript)*

- I have created a web-based to-do list demo that allows the user to add tasks, mark tasks as completed and delete one or all of the tasks in the list.
- You can access the project files, source codes, and reports from this Github Link.

Wandering Robot Project *(Java Swing)*

- I have developed a virtual maze-solving robot that finds the shortest path by combining Java data structures and object-oriented programming, using the Swing library to create the interface. This project demonstrates how to use an algorithm to reach an unknown target point in unknown graphs and map out the shortest path. The searching robot has its own memory and uses Dijkstra's algorithm on the paths stored in its memory.
- You can access the project files, source codes, and reports from this Github Link.

Languages

- **Turkish** [Native]
- **English** [Advanced (C1+)] - Learning