Ceren Çağlayan

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Fourth-Year Computer Engineering Student / Backend Developer

Experienced Backend Developer with 1 year of Springboot, SQL, and AWS experience. Contributed to performance increase in system modules. Thoroughly tested and delivered endpoints, improving project efficiency and ensuring on-time delivery.

Other areas of interest include projects developed in embedded systems and machine learning, as well as my thesis.

SKILLS

Soft Skills: Problem Solving, Collaboration, Good Communication

Hard Skills: Java, Web Programming, SpringBoot, Machine Learning, Python, Arduino, Raspberry Pi, AWS, MongoDB, SQL, Node.js, Data Structures, Database Management

Languages: Turkish (Native), English (Full professional proficiency), German (Beginner Level)

WORK EXPERIENCE

Delta Smart Technologies • 01/2024 - Present
Backend Developer • 04/2024 - Present

- Joining the backend team and quickly adapting to new projects and learning new things.
- Updated Waste/Consumption modules using Springboot, increasing system performance and seamless project maintenance.
- With the Pincident project developed with electricity distribution companies such as Gediz, Medaş, Vedaş within the scope of occupational health and safety, new fields were added to the application with Springboot and modules were developed, user experience was improved and customer satisfaction was increased.
- Participating in customer meetings, contributing to critical discussions and decision-making processes, taking an active role in task distribution, ensuring efficient team operations and project progress

Backend Developer Intern • 01/2024 - Present

- The backend of a REST API project based on Company Organization Software enabled the learning and reinforcement of skills such as Springboot (including Spring Security, Spring Data Jpa), SQL.
- While the application was being made, deployment with Amazon Web Services was learned.

EDUCATION

Izmir Institute of Technology
Computer Engineering • Izmir • GPA: 3.18 • 08/2019 - Present

Universität des Saarlandes
Erasmus+ Programme for Computer Engineering Students.
Computer Science • Saarland,Germany • 04/2023 - 09/2024

Bornova Anatolian High School
• İzmir • 09/2015 - 06/2019

PROJECTS

THERAPIA/THESIS PROJECT

The project aims to determine the possibility of depression by analyzing user input and presenting this analysis in a real-time web application, including patients and mental health professionals.

In addition, the prepared dataset is a Turkishized dataset. Such a step was taken to contribute to the Turkish language in terms of machine learning and NLP. Within the scope of the project, data preprocessing, model training, and integration of the trained model into the web application were developed together with web development. For machine learning, scikit-learn library in Python, Node.js for Backend, and ReactJS for Frontend were used.

STATIONWATCH

This project monitors washing machine production stations. Throughout the project, the whole team regularly met with Arçelik to improve the User Experience, and the interface designs were decided together. I contributed to the backend development using Node.js. While doing this, the backend team also used POSTMAN to test the endpoints and Github was used to share the project. The backend code is here.

ONLINE INTERNSHIP SYSTEM

This project aimed to develop a website based on an "Online Internship System" that IZTECH students and IZTECH authorized personnel can use and companies can participate in. By taking part in the backend of the project, I had the opportunity to reinforce my Springboot, SQL, and AWS knowledge. In addition, before starting coding in the project, technical documents (such as Software Specification Report, and Software Design Document, Test Cases) were created by the team. The backend code is here.

WANDERBUD

This project is based on a smart suitcase that follows its owner. After establishing an object detection algorithm that can detect the logo of our product as a team, the hardware requirements of the robot were built. For this, Raspberry Pi 4 was used as the main computer, and the motors and sensors were connected to Arduino Uno. As a result, the project turned into a smart suitcase that moves towards the logo when it detects it. Thanks to this project, my knowledge of embedded systems and robotics concepts was strengthened.

PURRCLEAN

This project aimed to make the daily lives of cat owners easier. It was worked on cleaning the cat box in an automated way. During the project, I had the opportunity to reinforce the logic of embedded systems and concepts related to Arduino and Raspberry Pi.

CERTIFICATIONS

Introduction to Machine Learning • 01/2023 - Present
Global AI Hub

MARMARA TECHNO(N!) • 05/2021 - Present
Marmara University IEEE

Participation Certificate for 3rd International Conference on Frontiers in Academic Research ICFAR 2024
All Sciences Academy

PUBLICATIONS

Therapia: A Turkish Depression Detector Using Language Models / ICFAR Conference 2024 •
06/2024
All Sciences Academy