Cem Demir

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Summary

Recent Computer Engineering graduate passionate about finding innovative solutions to complex challenges. Have a strong affinity for both teaching and learning, with a particular interest in expanding skill set in back-end development. Improved communication skills over the past four years through teaching music to students of various age groups. Always enjoyed collaborating on programming projects within a team and playing music with fellow band members.

Education

Computer Engineering

Bahcesehir University • Istanbul, Besiktas
07/2023

- **GPA:** Achieved a 3.33 GPA.
- **Programming Skills:** Completed successful course projects in Python, Java, C++, and SQL.
- **IEEE Club Member:** Joined the IEEE Club during the first year of college, enabling participation in an Arduino-related course.
- **Departmental Elective Courses:** Successfully completed elective courses in Artificial Intelligence, UNIX Systems, Amazon Web Services, and Microsoft Azure Data Fundamentals.
- **Non-Dep Electives:** Enrolled in non-departmental elective courses such as Machine Learning with R (economics department), Innovation and Competition Policy in Digital Markets (economics department), and Innovative Marketing in Gaming (game development department).
- **Language Studies:** Earned top grades in introductory language courses for German 1 and Russian 1, laying a foundation for future language learning.

Highschool

Lycée Sainte Pulchérie • Istanbul, Beyoglu
06/2019

- **Technical Support:** Provided technical assistance to peers and teachers as a member of the "SPécialistes" group, specializing in computer-related issues.
- **Music Performances:** Performed in numerous music club shows both within and outside of school, showcasing skills in singing and playing various instruments, primarily guitar.

Skills

- **Programming Languages:** C#, C++, Java, Python, MIPS/MARS, SQL, Arduino, R
- **Frameworks:** .NET Core 6, ASP.NET Core 6, Entity Framework Core 6
- **Applications:** Visual Studio, Microsoft SQL Server Management Studio 2019, VS Code, MATLAB, Eclipse, CLion, R Studio
- **Operating Systems:** Windows 10-11, MacOS, Ubuntu
- **Certifications:** Basic Python, Introduction to Machine Learning, Microsoft: Azure Data Fundamentals
- **Interpersonal:** Teaching, Learning, Strong Communication, Team Player, Leadership, Collaboration

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Languages

- English (Fluent, IELTS 7.5)
- French (Fluent, DALF C1)
- Turkish (Native)

Projects

- **Musician Database (.NET/ASP.NET Core):** Using ASP.NET Core 6, Entity Framework Core; developed a web API project for a comprehensive musician and concert database. Created flexible RESTful endpoints to serve diverse purposes within the Musician Database such as: Helping venues find artists for events, connecting bands to musicians according to their needs, identifying events for listeners' enjoyment. Utilized Microsoft SQL Server 2019 for data storage. Implemented logging and caching mechanisms as well as an authorization mechanic which hashes and salts passwords.
- **Dating App for Musicians (SQL):** Laid the foundation for a musicians' networking app during college, focusing on database normalization techniques. This project served as the basis for the "Musician Database".
- **AWS Website Hosting (AWS Cloud):** Hosted a WordPress website on an EC2 instance using Docker within AWS Cloud.
- **Azure Database Hosting (Azure + SQL):** Developed a local web application that retrieves data from a Microsoft Azure-hosted database.
- **Tourism Income Forecasting (R):** Created a statistical tool in the "Machine Learning with R" course to predict tourism income using TUİK data.
- **Automated Adjustment Forms (Python):** Developed a program to automate the filling of adjustment forms for students changing majors or starting double major programs as a graduation project, which will be used by university personnel to save them time and effort.
- **Sentiment Analysis of Eksisozluk (Azure + Power BI):** Collaboratively developed an app that applies Azure Sentiment Analysis to entries in any given title and visualized the data using Power BI.
- **Space Invaders Game (Java):** Developed a Java game as a term project to gain a strong grasp of Object-Oriented Programming fundamentals.

Experience

Backend Developer Intern

Caretta Creative Business Solutions • Istanbul
08/2023 - 09/2023
During the internship, developed a robust Web API project 'Musician Database' utilizing ASP.NET Core 6, Entity Framework Core 6, and Microsoft SQL Server 2019. The project catered to bands, musicians, listeners and venues in the live music scene; offering versatile RESTful endpoints for various needs. The experience not only deepened technical expertise but also provided valuable insights into the software development process, fostering collaborative skills as the professional software development team was closely observed.

Music Teacher

Sainte Pulcherie Highschool • Istanbul
08/2019 - Present
Directing the weekly band practices of students at Sainte Pulcherie Highschool preparing them to perform at various musical activities. Also giving private guitar/music lessons to a young student of age 10 since they were 6.

Volunteer Work

Nebulist | 09/2020 - 2022

Partook in various projects in the social responsibility organization Nebulist. (e.g. making a tour around Istanbul in New Year's distributing gifts, that are donated, to the homeless)