Ahmet Hakan Yılmaz

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Education

Bilkent University _Ankara, Turkey_
Bachelor of Computer Science, GPA:3.39. _Sept 2018 - June 2023_

Work Experience

Dogus Technology _Istanbul, Turkey_
Software Engineer Intern _July 2022 - Sept 2022_
- Contributed to the development of Zebra, a web project with a microservice architecture for vehicle loan services.
- Developed an SMS verification service on a **.NET Core** project using **C#**.
- Successfully executed more than **15** UI changes on the Node.js project using **VueJs** and **Pug**, according to customers' requests.
- Performed **SQL to LINQ** conversions, reducing dependency on stored procedures. Wrote **xUnit** tests to increase code coverage.

Tetra Enginnering _Ankara, Turkey_
Software Engineer Intern _Aug 2021 - Sept 2021_
- Worked on Tetra Business Solutions (TBS), which is a web and android project that enable companies to follow their workflows.
- Created **6** new screens for the existing **Android** project and implemented service methods on the **.NET** project to retrieve data for those screens.
- Utilized MS SQL tools to optimize database efficiency, applying different indexing strategies that resulted in a **4%** improvement in overall performance, as measured by SQL profiler.

Projects

Paper Atlas
Senior Design, Web Project (Group) _Feb 2023 - June 2023_
- Collaboratively developed a web application utilizing **Node.js, React, Cytoscape.js,** and **Neo4j**. Paper Atlas visually represents academic papers, authors, and their relationships using interactive graphs and advanced search functionality, with over 400,000 nodes.
- Played an integral role in implementing frontend features using **React** and **Cytoscape.js**, integrating interactive graph visualization, and implementing advanced search filters to enhance user experience.

Brain Tumor Detector
ML Models (Group) _Nov 2022 - Jan 2023_
- Trained ML models (**Logistic Regression, MLP, CNN, Random Forest, and Transfer Learning**) to classify MRI scan results as either normal or one of three types of tumors. Achieved high accuracy rates, with the CNN model demonstrating the best performance at **95%** accuracy.

Meeting Arranger
Mobile Project (Individiual) _May 2022 - June 2022_
- Created a user-friendly meeting arranger application using **Flutter (Dart)** to facilitate scheduling of optimal meeting times. Integrated **Firestore** as the database and successfully published the app on the Google Play Store.

ClubVerse
Web Project (Group) _Nov 2021 - Jan 2022_
- Collectively developed a web project for handling university club and student relations using **Spring Boot (Java)**, **PostgreSQL**, **JQuery**.
- Played a key role in implementing backend and database components, writing methods for over **20** essential functionalities of the application.

Skills

Programming Java, C/C++, C#, Python, Dart, JavaScript, SQL (MS SQL , SQLite, PostgreSql).
Miscellaneous Android, Flutter, Pytorch, Firebase, Git, UML, Design Patterns.

Achievements

Advanced to the **2nd round** in Meta Hacker Cup 2022 (**Ranked 2439th** worldwide).	2022
Ranked 7th in ITU ACM AlgoComp'22 among 300+ teams.	2022
Finalist (Top 15) in Hacettepe University Programming Contest among 206 teams (HUPROG).	2022,2019
Ranked 41st and 126th in the National University Entrance Exam (YKS) among 2+ million candidates.	2020,2018
First place in Cankaya University Mathematics Competition among 51 High Schools.	2018
Received **2 Gold Medals and 1 Silver Medal** in Akdeniz University Mathematical Olympiads.	2017,2016,2015
Awarded a **Silver Medal** in TUBITAK National Mathematical Olympiads.	2014