Fehmi Sener

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ABOUT ME

A software developer who is deeply passionate about researching, learning, and innovating in the field of computer science. Currently pursuing a Master's in Informatics at TUM. Has a strong interest in Machine Learning, Data Science, Distributed Systems, DevOps, and Web Development. Believes that monumental achievements are only possible through effective teamwork and collaboration.

WORK EXPERIENCE

Software Engineer
Garanti BBVA Technology [21/07/2021 – 10/11/2023]

Address: Tersane St. 15 Garanti Technology Pendik, 34899 Istanbul (Türkiye)
Website: garantibbvateknoloji.com.tr/homepage
Name of unit or department: Core Banking Development - **Business or sector:** Financial and insurance activities

Develops and transforms legacy core banking applications into new and modern systems, and implements more efficient and profitable systems independent of old technologies.

- Implements **RESTful and gRPC** APIs for core services, in the **Java Spring Boot Framework**, with a focus on **microservices** architecture. Proficient in deploying applications using industry-standard tools such as Git, Jenkins, and SonarLint, following **CI/CD processes**.
- Builds front-end interfaces for branch employees to perform banking operations using **JavaScript, React, and the Lit** framework, adhering to **UI/UX principles**.
- Develops comprehensive **unit, integration, and performance tests** to validate advanced services and business logic scenarios. Migrates to **production environments**, serving more than 20 million customers.
- **Provides mentorship** to new team members, guiding them in the development processes of projects under the team's responsibility. Offers support for **implementing best practices**.
- Works in accordance with **Agile Software Development** methodologies in the Core Banking Development Team.

System Administration Intern
Arçelik Global [01/02/2021 – 15/07/2021]

Address: Karaağaç St. 2-6 Arçelik A.Ş, Beyoğlu, 34445 Istanbul (Türkiye)
Website: arcelikglobal.com/en
Name of unit or department: System Technologies - **Business or sector:** Manufacturing

Completed an internship in the **System Technologies Department**, focusing on the company's infrastructures and applications.

- Developed an integrated software solution using Lucy Security App to improve participation rates in security tests. Implemented an **auditing system** to restrict access for users who did not complete their security tests and training within a specified timeframe. Used Python, Windows PowerShell, **Microsoft SQL Server**, System Center Orchestrator, and RESTful API.
- Created location-based **dynamic reports** to monitor the status of servers used throughout the organization with Python, Windows PowerShell, **Microsoft SQL Server**, and SQL Server Reporting Services.

EDUCATION AND TRAINING

Master of Science, Informatics
Technical University of Munich [14/04/2023 – Current]

Address: Boltzmannstraße 3, 85748 Munich (Germany)

- Second semester

Computer Engineering
Kocaeli University [02/09/2019 – 22/06/2022]

Address: Kocaeli University Umuttepe Campus, 41001 Kocaeli (Türkiye)

Final grade: 3.53

Thesis: Extraction of Driver Characteristics and Trajectory Prediction Using Artificial Intelligence Techniques

- Graduated as the 3rd in the department and as an **honor student**.
- Conducted a graduation project focused on anomaly detection and driver characteristic detection for **streaming big data** using **machine learning techniques** such as K-Means, K-Prototypes, Auto-Encoders, Deep Learning, and Decision Trees.

PUBLICATIONS

Learning to Rank for Text Summarization: Revisiting the Features and Methods for Turkish Bank Documents

[2021]

10.1109/INISTA52262.2021.9548536

The study focuses on features and learning to rank algorithms in the context of domain-specific Turkish text summarization. It explores the impact of sentence-level and word-level features on text summarization through the application of three distinct learning-to-rank algorithms.

Published in the 2021 International Conference on Innovations in Intelligent Systems and Applications (**INISTA**).

PROJECTS

Streaming Big Data Analytics on Driver Characteristic

[01/03/2021 – 31/08/2022]

Implemented a **real-time anomaly analysis system** on a large spatiotemporal data stream. Various techniques, including both **machine learning and traditional methods**, were developed and compared to determine their effectiveness.

- Applied K-Means and K-Prototypes **clustering algorithms** to cluster drivers into categories and used Decision Trees for **classification**. Conducted behavior analysis to effectively categorize drivers in real-time based on their driving situations, mitigating accidents and potential hazards.
- The project **received financial support** from the Scientific and Technological Research Council of Turkey (TÜBİTAK) through the Industry-Oriented Research Projects Support Program for University Students.
- Assumed **leadership responsibilities** within the group, overseeing tasks such as group coordination, planning, and providing support and guidance to team members as needed.
- Designed infrastructures suitable for **handling large-scale data** and utilized development platforms such as GitLab, Docker, and Jenkins in adherence to CI/CD processes. Additionally, project technologies included Apache Kafka/Cassandra, MySQL, Java Spring, Python Flask, and Rest API.