



# Fehmi Sener

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## ABOUT ME

A software engineer skilled in full-stack development, cloud systems, and DevOps. Proficient in JavaScript, TypeScript, React, Java (Spring Boot), Python and microservices architecture, with hands-on experience building scalable applications. Experienced in working with cross-functional, cross-cultural teams and agile workflows. Proactive, detail-oriented, and always ready to take ownership to drive projects forward.

## WORK EXPERIENCE

### Working Student – Cloud Software Developer

**BMW Group** [ 06/2024 – Current ]

City: Munich | Country: Germany | Business or sector: Manufacturing

Contributing to the **Connected Drive Backend Platform**, which hosts **300+ AWS cloud services** for digital and connected vehicles. Supporting platform scalability and automation for global DevOps teams.

- Developing order management, container orchestration, DevOps tooling, and cloud infrastructure with **AWS, GraphQL, Terraform**, and **Python (FastAPI)**.
- Contributed to React frontend development with **shadcn/ui elements**, supporting UI transformation.
- Built a reporting tool for **delivery and quality reports**, tracking agile metrics from Jira backlogs with Python.
- Developed and integrated a product catalog and availability system for all product offerings, enabling API integration and daily checks on product availability, metrics, and costs.

### Software Engineer

**Garanti BBVA Technology** [ 07/2021 – 11/2023 ]

City: Istanbul | Country: Türkiye | Business or sector: Financial and insurance activities

Developed and transformed legacy core banking applications into new and modern systems, and implemented more efficient and profitable systems independent of old technologies.

- Implemented **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**.
- Built front-end interfaces for branch employees to perform banking operations using **JavaScript, TypeScript, React, and LitElement** framework, adhering to **UI/UX principles**.
- Developed comprehensive **unit, integration, and performance tests** to validate advanced services and business logic scenarios. Migrated to **production environments**, serving more than 20 million customers.
- **Provided mentorship** to new team members, guiding them in the development processes of projects under the team's responsibility. Offered support for **implementing best practices**.
- Worked in accordance with **Agile Software Development** methodologies in the Core Banking Development Team.

## EDUCATION AND TRAINING

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### Master of Science, Informatics

*Technical University of Munich* [ 04/2023 – Current ]

City: Munich | Country: Germany

- **Major:** Engineering Software-Intensive Systems (**SE**)
- **Minors:** Scientific Computing & High-Performance Computing (**HPC**), Machine Learning & Analytics (**MLA**)
- HiWi (Student Research Assistant) for the [Digital NERD project](#), working on **NLP-based lecture recommendation** systems.

### Computer Engineering

*Kocaeli University* [ 09/2019 – 06/2022 ]

Address: 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

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[2021]

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

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**).

10.1109/INISTA52262.2021.9548536

## PROJECTS

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[ 03/2021 – 08/2022 ]

### Streaming Big Data Analytics on Driver Characteristic

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.