



# MUSTAFA YUSUF AKSOY

Pendik/Istanbul/Turkey

+905511127557 | mustafayusufaksoy@outlook.com | github.com/mustafayusufaksoy | in

linkedin.com/in/mustafayusufaksoy/

## Personal Profile

I am currently specializing in Full Stack Development, with 1.5 years of industry experience. During my studies, I worked as an undergraduate researcher at Kadir Has University's research center. My interests include Data Science, Cyber Security, and Machine Learning, with a focus on integrating AI into web and mobile applications. Currently, I am building a strong foundation in web and mobile technologies to create comprehensive software solutions.

## Education

### Kadir Has University

Management Information System

Istanbul - Turkey

2019 - 2024

## Work Experience

### Full-stack Developer

#### BIGBANG Yazılım

Istanbul, Turkey

June 2023 - Current

- Developed and deployed an AI-powered ticketing system using Next.js and TypeScript, now actively used within the company.
- Built a CRM web application with Node.js and React, using Redis and NodeCache for large data handling, with MSSQL and PostgreSQL for database management.
- Created a reporting platform for a major textile factory to track production line metrics, utilizing Node.js and Oracle.
- Developed a web service for a leading digital media firm in Turkey for project and client tracking, integrating REST APIs, Docker, Redis, and managing eight databases, using ORM tools like Sequelize and for efficient database interaction.
- Technologies Used:** Docker, React, Next.js, TypeScript, Node.js, Express.js, MSSQL, PostgreSQL, Oracle, Redis, NodeCache, REST API, Two-step Verification, Sequelize, .

### Software Developer (Part-time)

#### Orka Holding - Damat / Tween / D'S

Istanbul, Turkey

February 2023 - June 2023

- Developed an AI-powered ticket system for the company.
- Created programs to automate production work orders and technical designs.
- Designed and implemented the company's CRM web application from scratch.
- Developed and launched the websites giteks.com.tr and giysun.com.tr.
- Collaborated closely with cross-functional teams to ensure seamless integration of new systems.
- Gained experience in full-stack development, project management, and process optimization.
- Technologies Used:** JavaScript, Node.js, Express.js, React, Next.js, MySQL, MSSQL, HTML, CSS, Bootstrap, Server Management.

### Thesis & Research Student

#### Boğaziçi Elektrik Dağıtım A.Ş

Istanbul, Turkey

February 2024 - July 2024

- Collaborated with BEDAŞ on analyzing and forecasting repair times in power distribution networks.
- Conducted data preprocessing and analysis to support machine learning models.
- Developed active solutions based on the findings of the research.
- Engaged in regular meetings and discussions to align project goals and outcomes.
- Enhanced skills in data analysis, machine learning, and project collaboration.

### Undergraduate Researcher

#### Kadir Has University Research Center on Cybersecurity and Critical Infrastructure Protection

Istanbul, Turkey

April 2020 - April 2024

- Involved in multiple data science projects, including the current project focused on malware classification.
- Project phases include creating a comprehensive dataset of malware and benign software.
- Conducting data processing, analysis, and feature engineering on the collected data.
- Developing a statistical approach for malware classification using API calls and other behavioral features of malware.
- Proficient in data extraction, data preprocessing, and data analysis.
- Experienced in model development, data mining, data visualization, forecasting, and automated data processing.
- Other Projects:** Topic Modelling, OSINT, Natural
- Soft Skills:** Python (Pandas, NumPy, Scikit-learn), Machine and Deep Learning, Malware Analysis, SQL, Linux, Shell (Bash/Zsh).

# Publications

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- **Analyzing and Forecasting Repair Times in Power Distribution Networks through Machine Learning**  
Presented at: IMISC 2024: 11th International Management Information Systems Conference (upcoming)  
Authors: 1]Mustafa Yusuf Aksoy, 1]Ahmet Emin Özkarabüber, 1]Umut Bakış Doğan, 1]Oğuzhan Ceylan

# Skills

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<b>Full Stack Development</b>	JavaScript, Node.js, Express.js, React, Next.js, HTML, CSS, TypeScript, REST API, Docker
<b>Backend &amp; APIs</b>	Node.js, Express.js, REST API, Redis, NodeCache, Two-step Verification, Sequelize, Mongoose
<b>Databases</b>	PostgreSQL, MySQL, MSSQL, Oracle
<b>Programming &amp; Tools</b>	Python, Machine Learning, Cuckoo Sandbox, PHP, AWS
<b>Miscellaneous</b>	Linux, Shell, Overleaf, Microsoft Office, Server Management
<b>Soft Skills</b>	Time Management, Sales, Entrepreneurship, Teamwork, Problem-solving

# Interests

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Camping - Reading - Travelling - Swimming

# Languages

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<b>Turkish</b>	Native proficiency
<b>English</b>	Professional proficiency