Muhammed Osman

Computer Engineering

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Education

● **Alaaddin Keykubat University**   *2019-2024*

- Bachelor of Computer Engineering

Projects

● **Erken Uyarı Merkezi AI**

An AI-based early warning system designed to detect potential earthquakes by monitoring the physiological data of animals (heart rate, temperature, respiration) via smart collars developed by Oppenza. Real-time data is analyzed with machine learning models to identify abnormal stress patterns. If multiple animals across Istanbul show simultaneous stress spikes, the system triggers public alerts via digital billboards, mobile apps, and radio broadcasts.

● **Yıldırım Belediyesi**

Developed the official mobile application for Yıldırım Municipality, designed to enhance communication between the local government and its citizens. The app allows users to access municipal services, submit requests or complaints, view announcements and events, locate facilities on an interactive map, and receive real-time notifications. Focused on usability, performance, and accessibility for a wide range of users.

● **Oppenza Mobile Application**

Developed Oppenza, a next-generation Turkish social media platform — a fully local and national alternative to apps like X (formerly Twitter). The app enables users to interact, post content, join events, watch Reels, start live streams, and engage in community discussions. Focused on delivering a smooth and engaging mobile experience with real-time features.

● **NAO Robot for Cancer Kids' Support**

Developed an AI system integrating natural language processing and image processing into the NAO humanoid robot. Implemented real-time speech-to-text, text-to-speech, and vision-based decision-making pipelines using custom-trained language models and OpenCV. Aimed at creating interactive robotic solutions for education, healthcare, and tourism sectors

● **Taksi Mobile Application**

Developed a mobile taxi app that enables users to book rides, track drivers live, and view routes via Google Maps. Designed with a simple and intuitive UI for both passengers and drivers.

● **Sabah Sende**

Developed Sabah Sende, a social morning routine app where users answer daily questions and share thoughts to start the day positively. Designed with a clean, uplifting UI and seamless interaction features to encourage daily engagement.

Experience

Ahtapot Holding

- Utilized Provider for efficient and reactive state management.
- Integrated Google Maps SDK to enable real-time geolocation, route tracking, and destination selection.
- Built user authentication and push notification systems using Firebase.
- Focused on responsive UI/UX design and seamless user flow for location-based services.
- Employed Git and GitHub for version control and collaborative development.
- Actively contributed to testing, debugging, and deployment processes.

Interzio IT Department

- - Worked on mobile app development.
- - Actively utilized tools like VS Code, Git, and Android Studio.
- - Participated in app testing and reported bugs effectively.
- - SOLID principles implementation.
- - Familiarity with OOP design principles.
- - Localization for multi-language support.
- - Strong knowledge of code merging and branching.- MVVM, DDD design patterns, and Clean Architecture.

Oppenza / Heranında

As a key member of the mobile development team at Oppenza, one of Türkiye's most innovative social technology startups, I contributed to the development of multiple scalable Flutter-based applications from scratch, including:

- Oppenza App – Often described as the "Türkiye's national version of X (formerly Twitter)", this platform enables users to post content, interact socially, join live events, watch reels, and more. I led UI/UX design, integrated RESTful APIs, and optimized app performance for high user traffic.
- Early Warning AI System – Collaborated on the development of an AI-powered disaster alert platform utilizing smart animal collars to predict earthquakes. My role involved building the mobile interface for real-time notifications and user interaction.
- Worked closely with cross-functional teams (design, backend, AI) to ensure seamless integration and delivery across all platforms.

Certificates

DART&FLUTTER VE HACKATHON CERTIFICATE

ART&FLUTTER AND HACKATHON CERTIFICATE Dec 2022 GDSC ALKU We congratulate you for your participation and success in the DART&FLUTTER EDUCATION AND HACKATHON events organized by GDSC ALKU on December 17-18.

Skills

- Flutter & Dart
- Firebase & Cloud Functions
- RESTful API Integration, OpenStreetMap, Google Maps SDK
- Git, GitHub (GitHub Desktop), GitLab,VS Code, Agile/Scrum
- Artificial Intelligence Integration
- App Store and Google Play Store app publishing.
- Python,OpenCV,PyTorch,NAOqi SDK
- Responsive Design
- Cross-Platform App Development
- Problem-Solving & Team Collaboration
- Postman
- Provider, Riverpod, GetX, BLoC

Languages

Turkish (Native), **English** (Professional), **Russian** (Professional), **Uzbek** (Professional).

REFERENCES

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