

**Rabea Madrk**

**Computer Engineering Student**

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**Profile** Computer Engineering student expected to graduate in **July 2027**, with hands-on experience developing full-stack web and mobile applications using Flutter, Spring Boot, Django, React, Java, and Python. Skilled in designing scalable software with RESTful APIs, relational databases, authentication systems, state management, and software architecture patterns. Passionate about software engineering, problem-solving, and developing scalable, user-focused applications while continuously expanding my technical skills.

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## Education

**B.Sc. Computer Engineering** Istanbul Topkapi University Expected Graduation: **July 2027**

## Technical Skills

**Languages** Java • Python • Dart • JavaScript • SQL • HTML • CSS

**Frameworks** Flutter • Spring Boot • Django • React

**Databases** PostgreSQL • SQLite • MySQL

**Tools** Git • GitHub • Android Studio • IntelliJ IDEA • VS Code • Postman

**Core Concepts** OOP • Data Structures & Algorithms • REST APIs • MVC • Layered Architecture • Repository Pattern • DAO Pattern • Provider State Management • Authentication & Authorization • RBAC • Database Design

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## Projects

### ReLoop – Full-Stack Mobile Application

**Flutter • SQLite • Provider • Dart**

Developed a mobile marketplace application with secure authentication and role-based dashboards. Implemented layered architecture using DAO and Repository patterns for maintainable code. Integrated local database storage, payment workflow, maps, and responsive UI. Designed scalable application architecture following clean software engineering principles.

### Grocery Store – Full-Stack E-Commerce Website

**Spring Boot • React • PostgreSQL**

Built a full-stack e-commerce platform using RESTful APIs. Developed backend services for product, customer, and order management. Integrated React frontend with Spring Boot backend and PostgreSQL database.

### DataNest – Dynamic Data Repository System

**Django • SQLite**

Developed a dataset management platform supporting dynamic file management. Implemented Role-Based Access Control (RBAC), activity logging, Django Signals, and CSV export. Optimized database performance using indexing and REST-style APIs.

### ParkLift – Smart Parking Elevator Simulation

**Flutter • SQLite • Provider**

Developed a smart parking elevator simulation featuring real-time queue processing and emergency handling. Implemented authentication, monitoring dashboard, and simulation history. Applied Singleton, Observer, and Strategy design patterns to improve modularity and maintainability.

**Languages** Arabic — Native . English — Fluent . Turkish — B2