

Reham Hatem

Junior Software Engineer

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PROFILE

Junior Software Developer with hands-on experience in web, mobile, and AI development. Possesses a solid understanding of both relational (MySQL, Oracle) and non-relational (MongoDB, Firebase) databases. Passionate about building scalable solutions within collaborative, innovation-driven teams.

EDUCATION

Bachelor's Degree in Computer Science and Artificial Intelligence (AI Department) 2020 - 2024
Cairo University Giza , Egypt

COURSES

Flutter Development Deploma | Route IT Center Nov 2023 - Mar 2024
Full Stack PHP Web Development | ITI Trainee Mar 2025 - Present
Machine Learning , Deep Learning , Supervised Unsupervised Reinforcement Learning | Coursera

SKILLS

- Programming Languages: JavaScript, TypeScript, PHP, Dart, Python
- Frontend Technologies: Angular, HTML, CSS, Bootstrap
- Backend Technologies: Node.js, Express.js, Laravel
- Databases: MongoDB, MySQL, Oracle, Hive, SharedPreferences, Firebase
- State Management & Architecture : Bloc, Provider, MVVM, Clean Architecture, OOP (Object-Oriented Programming), Design Patterns, MVC
- Development Concepts: Full Stack Development, RESTful APIs, API Integration, Payment Integration
- Machine Learning & AI: Supervised Learning, Unsupervised Learning, Reinforcement Learning
- Tools & Platforms: Git & GitHub, Linux, Firebase Services (Auth, Firestore, etc.), Postman, Jira, Google Maps
- Personal skills: Team Work, Creativity , Work under stress, Learning Flexibility

PROJECTS

Trade Mate | Inventory Management Mobile App

Technologies: Clean Architecture , Repository Pattern , Cubit

- Developed an inventory system with product categorization, stock tracking, and full supplier/customer registration.
- Implemented billing with discounts, taxes, payment tracking, and detailed reporting for product and sales history.

Dishcovery | Recipes Web Site with AI integration

Technologies: Angular , ChaGPT2 API , Deployment

- Built and deployed a responsive Angular web app integrated with ChatGPT-2 API for AI-powered recipe generation based on ingredients.
- Enhanced skills in UI/UX, API integration, and dynamic content structuring through categorized recipe browsing and smart suggestions.

BookMe | Book Shop Web Application

Technologies: Firebase in web , Payment Integration , Cloudinary , Auth , Hosting

- Developed a Firebase-authenticated web app with email/Google login, product catalog with pagination, a synced cart system using localStorage and Firestore, and PayPal test payment integration.
- Built an admin panel for product management (add/edit/delete), used Cloudinary for image optimization, enforced Firestore security rules, and deployed the app via Firebase Hosting.

E-commerce | E-Commerce for shopping Mobile Application

Technologies : Restful API's , state management

- Implemented Clean Architecture (UI–Domain–Data layers) with Cubit for efficient state management, ensuring a scalable and maintainable mobile application structure.
- Integrated RESTful APIs to deliver full shopping functionality including categories, brands, product listing, cart, user profile, authentication (login/register), and wish list features.

Movies | Movies Mobile Application using TMDP API

Technologies : Restful API's , MVVM , Git

- Integrated the TMDP API to fetch and display popular, upcoming, and top-rated movies, with detailed information for each film.
- Enabled movie search by name or type, and allowed users to manage a personal watch list by adding or removing movies.

GEINIE | gallery mobile application integrated with AI model using Flask

Technologies : integrate AI using Flask , Storage , Provider

- Developed a responsive Flutter app with Firebase backend, enabling image upload/capture, AI-generated captions, and semantic search using a Flask API with Sentence Transformers.
- Integrated AI image captioning and semantic search via a Flask API using Sentence Transformers.
- Implemented MVVM architecture with Provider for maintainable state management, along with secure user authentication and intelligent image handling.

AI & Machine Learning Projects

Text classification model using CNN

Sentiment140 dataset

Fruit recognition model

fruit360 dataset

Text generation using an RNN model

trained on Wikipedia articles

Mobile price classification

Particle Swarm Optimization (PSO) and Linear Discriminant Analysis (LDA) with a Decision Tree classifier to classify mobile phone prices based on specifications.