

Dvir Kakun | Fullstack Developer

kakundvir@gmail.com | [Linkedin](#) | [GitHub](#) | 052-433-4898

Professional Summary

Fullstack Developer with hands-on experience building production-grade web applications using **React, FastAPI, MongoDB, and Docker**. Skilled in developing AI-integrated platforms, secure backend services, and responsive user interfaces. Passionate about delivering robust, scalable, and maintainable solutions through **modular architecture** and **async processing**.

Projects

MovieCompass – AI-Powered Movie Recommendation Platform

React · FastAPI · MongoDB Atlas · Docker · Ollama + Mistral LLM

Fullstack web app for personalized movie discovery using local AI models.

- Built a **local LLM engine** (Ollama + Mistral 7B) for custom recommendations with async processing.
- Developed a **modern React 18 + TypeScript frontend** with Tailwind, Shadcn, Framer Motion, infinite scroll, and debounced search.
- Engineered a **FastAPI backend** with **JWT, Google OAuth2, MongoDB Atlas**, TMDB API, and OpenAPI docs.
- Deployed a **Dockerized microservice architecture** with isolated services for frontend, backend, DB, and AI processing.
- Added features like **real-time search**, multi-criteria filtering, watchlists, ratings, and **email notifications via Gmail SMTP**.

Battleship War Game – Multiplayer Web App

JavaScript · Firebase

Interactive turn-based Battleship game with real-time multiplayer and AI.

- Built **room-based online gameplay** using Firebase Realtime DB and PIN access.
 - Designed custom **AI opponent** and responsive **drag-and-drop board** with event-driven UI.
 - Focused on **DOM manipulation**, game logic, and smooth user interaction.
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Technical Skills

Frontend: React, TypeScript, Tailwind CSS, Shadcn, Framer Motion

Backend: FastAPI, Python, Pydantic, REST APIs

Database: MongoDB Atlas, Firebase Realtime DB

Authentication: JWT, Google OAuth2, Firebase Auth, SMTP

DevOps: Docker, Git, Vite, Postman

Core Concepts: Modular Design, Async/Await, State Management, API Integration

Education

BSc in Computer Science, Holon Institute of Technology

2022–2025 | **GPA: 98** | **President's List** for Academic Excellence

Additional

- **HIT Student Association:** Led tech initiatives and represented the students.
- **Israeli Navy (2018–2020):** Electronics Technician & ISO-Certified QC Inspector