

# Omri Mercado

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## Professional Summary

Driven and self-motivated **Junior Full-Stack Developer** with a deep curiosity for **AI-powered systems** and hands-on experience across the stack—from **React and Next.js frontends** to **Python and Node.js backends**. Strong foundation in computer science, with proven ability to independently research, learn, and implement **emerging AI technologies** such as intelligent agents, RAG pipelines, and vector databases. Passionate about transforming innovative ideas into production-ready solutions through rapid prototyping, experimentation, and data-driven development. I am eager to join a forward-thinking team where I can contribute to **AI-driven enterprise applications** and continue to grow through impactful, hands-on engineering.

## Skills

### Technical:

**React, Next.js**, Angular, JavaScript, HTML, CSS, Python, FastAPI, **Node.js**, Java, **PostgreSQL**, SQL Server, MongoDB, Firebase Firestore, **Redis**, **Vector Databases**, Docker, AWS, Git, CI/CD

### Professional:

**Self-Learning**, Problem Solving, Initiative, Analytical Thinking, Time Management, Team Collaboration, Communication

## Educational Qualifications and Certifications

B.Sc. in Computer Science, Holon Institute of Technology (HIT) **GPU: 90**

**2022–2025**

- Theoretical and practical knowledge of algorithms, data structures, operating systems, and software engineering principles.
- Strong in designing reusable, modular code using OOP principles such as inheritance, polymorphism, and encapsulation.
- Experience with Agile development methodologies and version control tools.

## Projects

### AI-Powered Vacation Planner

- Developed a full-stack POC for dynamic itinerary generation using FastAPI (Python) and React.
- Integrated foundation LLMs (Groq AI & local Llama models) via Hugging Face, fine-tuning prompts to deliver personalized travel suggestions.
- Combined weather (OpenWeather API) and flight (Skyscanner API) data for context-aware recommendations.
- Authored technical documentation and best-practice guides to onboard new team members.

### Full-Stack Social Media Platform - Frontend Developer

- Developed reusable React component library with custom hooks for authentication and WebSocket management, implementing MVC architecture principles on the client side. Utilized modern ES6+ JavaScript features, async/await patterns for API calls, and local storage for state persistence. Delivered a scalable, maintainable codebase with comprehensive form validation, error handling, and loading states for enhanced user experience.

### Shift-Manager – Android Shift Scheduling App

- Designed and built an end-to-end Android app in Java using Firebase for authentication and Firestore for real-time data.
- Implemented dual dashboards: Admins assign shifts, track arrivals, and update salaries; users view schedules and generate monthly reports.

## Additional Information

**Military service:** "Patriot" Interceptor, Commander Israeli Air Defense. Doing reserve in new unit in Air Force.

**Languages:** Hebrew (Native Speaker), English (Business Fluent)