

Yoav Gal

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Summary

Passionate and fast learner software developer with 3 years of experience in the IDF's Mamram-Shahar unit, specializing in designing and implementing efficient, scalable solutions. Proven ability in front-end and back-end development, containerization, and database management. A dedicated team player with strong communication, problem-solving skills, and adaptability, focused on understanding the big picture to deliver high-impact results.

Professional Experience

IDF, Mamram-Shahar - Logistics Digital Service - *Technical Lead*

2024

Developed a web and mobile app UI for logistics, delivering a user experience akin to delivery apps with geospatial functionality.

- Gamified the user experience to enhance engagement.
- Managed background location sampling for accurate and real-time tracking on mobile.
- Developed Helm charts and deployment scripts, making environment setups repeatable and efficient.
- Optimized complex SQL queries, refactoring data models for performance gains.
- Enhanced code testability by implementing reusable test data and automated tests.
- Created stress tests to assess system performance under heavy load (*K6*).

Stack: Next.js, TypeScript, PostgreSQL, Prisma, Docker, Helm, Kubernetes, AWS.

IDF, Mamram-Shahar - BI Platform Development - *Software Developer*

2022 – 2023

Developed a generic BI platform, enhancing its visualization, data export, and user experience.

- Added new visualization capabilities, introducing diverse chart types to enrich data representation (*React*).
- Improved data export and optimized data loading, reducing processing times (*C# .NET*).
- Enhanced UI/UX for better user engagement and streamlined interactions.
- Transitioned backend from a .NET monolith to Node.js microservices architecture.
- Spearheaded the migration from IIS to Kubernetes (OpenShift) with Docker for better scalability.
- Created and published two custom Fastify plugins, adding reusable functionality.
- Developed onboarding documentation and training materials for new developers (*Confluence*).

Stack: React, TypeScript, .NET, Fastify, Docker, Kubernetes (OpenShift), Redis, Oracle, MDX.

Additional Projects

- **Online Strategy Game** – Developed a strategy game with a computer opponent using graph algorithms (*C#*).
 - **Assembly Competition** – Won an Assembly Battle Royal competition by designing a self-repairing code solution based on opcodes.
 - **AI-Powered Social Media Analysis Platform** – Built a platform providing actionable insights for comment sections, including engagement metrics, comment clustering, personalized recommendations, and more (*Next.js, TypeScript, Gemini*).
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Education

B.A. in Computer Science, Major in Data Science

The College of Management, Israel

Expected Graduation: 2025

Skills

- **Languages & Frameworks:** C#, JavaScript, TypeScript, SQL, Node.js, React, .NET, Fastify, Prisma
- **DevOps & Tools:** Docker, Kubernetes (Helm, OpenShift), AWS, K6, Redis, Oracle, PostgreSQL
- **Methodologies:** Agile, Microservices Architecture, Test-Driven Development
- **Soft Skills:** Strong communicator, team player, fast learner, autodidactic, strategic thinker