Ehud Vaknin

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A fourth-year B.Sc. Software Engineering student specializing in Data Science (GPA: 92). hands-on experience in multiple programming languages: **C, C++, C#, Java, Python, and SQL** along with experience in **Docker, GitHub, FastAPI, Redis, Azure DevOps, .NET framework**.

I am actively seeking a full time junior position in software development, eager to gain real-world experience, work in a team and enrich my knowledge.

Education
2022-2025 – B.Sc. in Software Engineering, Sami Shamoon College of Engineering (Specialized in Data Science).
Key Courses: Programming Language Principles (**100**), Data Structures (**99**), Advanced Object-Oriented Programming (**97**), Algorithms (**97**), Databases (**100**)

Projects

- **Whatsapp Order Chatbot Assistant:** Designed and deployed a backend automation platform using n8n, FastAPI, Docker, integrating Redis for session/chat memory, WhatsApp Cloud API, Ai agents, and OpenAI API to automate order process, real-time conversation and expose RESTful endpoints via FastAPI; implemented intelligent features including **upsell logic**, **item links suggestions**, and **semantic item name matching** using RapidFuzz to enhance automation relevance and user engagement.

- **Full-stack Students Requests System:** Designed and implemented a FastAPI-based backend, integrating JWT authentication, automated email notifications, AWS RDS database, and Azure CI/CD pipelines. Wrote unit tests for API endpoints with pytest, applying code coverage and branch coverage metrics to monitor test quality; collaborated in an Agile environment using Jira boards and sprint-based development for planning and delivery.

- **Full-stack eLibrary MVC System:** Built a full-stack library management platform featuring client-side and server-side logic, database integration and external API integration (PayPal).

- **Space Invaders Game:** Developed using the Pygame game development library (you can try it here -> https://github.com/udivak/Space-Invaders).

Work Experience

Epidemiological Investigator – **Ministry of Health (2020-2021)**

- Completed official epidemiology training and infectious disease control certification.
- Conducted case investigations for COVID-19 patients to mitigate infection spread.

Platoon Deputy Commander (IDF - Golani Brigade, 2019-2020)

- Led a 40-soldier unit with operational planning, training, and mission execution.
- Managed strict scheduling, task prioritization, and leadership responsibilities.
- Awarded Brigade & Battalion Excellence Certificates for outstanding performance.

Languages : **Hebrew** – Native | **English** – Proficient