

Shimon Ifrach

Contact

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Skills

Programming Languages:

Python, Assembly, C, C++, Java, C#, JavaScript.

Web Technologies: HTML,

CSS, JS, Web API, RESTful services ASP.NET.

CS Fundamentals:

Algorithms, Data Structures, OOP, Databases, Computer Architecture.

Tools: Git, Visual Studio, VS

Code.

Databases: PostgreSQL, SQL

server.

Languages

English – fluent

Hebrew – native

Summary

Third-year Computer Science student at the Hebrew University (**Graduating 2027**) with a "Builder" mindset, seeking a **Software Engineering Student** position. Experienced in architecting **E2E systems**—from **ASP.NET** backends to **Flutter** mobile applications—with hands-on expertise in integrating **LLMs (Gemini API)**. As a **CS educator**, I combine strong theoretical foundations in **Data Structures** and **Algorithms** with practical experience in building production-ready, user-centric products.

Experience

E2E Software Engineering (personal projects) | 2024 – Present

- **Languages & Frameworks:** C#, Java, Dart, SQL (PostgreSQL), ASP.NET, Flutter, JS/TS.
- **Architecture & Design:** E2E System Design, Database Schema (ERD), OOP, RESTful APIs.
- **Tools & Tech:** Gemini API, Git, API integration, OAuth 2.0, Stripe, Cloud Hosting.
- **Engineering:** Modular Code Design, Debugging, Production Troubleshooting, Deployment.

Computer Science Educator IASA High School | 2024 – Present

- Instructing 5–10 unit computer science courses, including **Java**, **Data Structures**, and **Automata**.
- Mentoring students in software design principles and bridging theoretical knowledge with practical application

Projects

MoodCast (AI-Driven Web App)

An E2E movie recommendation platform leveraging **AI agents** to personalize suggestions based on user sentiment. Features secure authentication (Google OAuth) and a relational database management system (**PostgreSQL**), built with **ASP.NET (C#)**.

[MoodCast Personal Project](#), [View Demo Video](#), [Live Website](#)

GPT-2 Transformer (Deep Learning)

Architected a character-level generative model from scratch using PyTorch. Implemented Causal Self-Attention and optimized text coherence through Top-k Sampling.

[Transformer Project](#)

Education

Bachelor of Science | The Hebrew University of Jerusalem | 2023 – 2027

- Computer Science student, expected graduation: 2027.
- Key Courses: **Programming Workshop** (C & C++: 85), **Data Structures** (87), **Algorithms**, **Computer Architecture**.

Pre-Academic Studies | The Hebrew University of Jerusalem | 2022 – 2023

- Focused on Physics, Mathematics, and Academic Writing.
- Final Grade: 100.