Shimon Ifrach

Contact

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LinkedIn:
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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.

Data bases: PostgreSQL.

Languages

English – fluent
Hebrew – native

Summary

I'm a CS student at Hebrew University (2027) with a builder's mindset. Whether it's architecting E2E systems like MoodCast from scratch or teaching Data Structures to high schoolers, I thrive on turning complex logic into user-centric products. A disciplined, self-taught developer at heart, I specialize in bridging robust ASP.NET backends with sleek Flutter mobile apps, always with an eye for clean architecture and AI integration.

Experience

E2E Software Engineer Freelance · 2024 – Present

• Architected MoodCast using ASP.NET (C#) and PostgreSQL, integrating AI agents (Gemini/OpenAI), Google OAuth, and Stripe.

• Developing Runio, a cross-platform mobile application using Flutter (Dart).

• Managed the complete E2E lifecycle from system architecture and database design to production deployment.

Computer Science Educator IASA High School · 2024 – Present

• Instructing 5–10 unit computer science courses, including Java, Data Structures, and Automata with a high student success rate.

• Mentoring students in software design principles and bridging theoretical knowledge with practical, hands-on applications.

Projects

MoodCast
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
Architected a character-level generative model from scratch using PyTorch. Implemented Causal Self-Attention and optimized text coherence through Top-k Sampling. Achieved stable convergence for Shakespearean-style text generation.
Transformer Project

Education

Bachelor of Science – The Hebrew University of Jerusalem, Jerusalem

- Computer Science student, graduate in 2027.
- **Key courses**: programming workshop in C & C++ (**85**),data structures (**87**), algorithms, Computer Architecture.

Pre-academic studies, The Hebrew University of Jerusalem, Jerusalem
2022 – 2023

- Physics, Mathematics and academic writing
- Final grade: **100**