

Shimon Ifrach

Contact

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Skills

Programming: Python (PyTorch, NumPy), C, C++, Java, C#, JavaScript, Node.js.

AI & Data: Generative AI (LLMs), Machine Learning (IML), Deep Learning (IDL), Data manipulation (tqdm).

Web Technologies: ASP.NET, Express.js, RESTful APIs, HTML/CSS, OAuth 2.0.

CS Fundamentals: Algorithms, Data Structures, OOP, Computer Architecture.

Databases: PostgreSQL, SQL Server.

Tools & DevOps: Docker (basic), Git, Visual Studio, VS Code, Cloud Hosting.

Languages

English – fluent
Hebrew – native

Summary

Third-year Computer Science student at the Hebrew University (Graduating 2027) with a "Builder" mindset, seeking an **MLOps Student position**. Experienced in architecting and deploying **AI-integrated E2E systems**, with expertise in building **inference pipelines** using the **Gemini API** and **TMDB**. Proficient in **Python (PyTorch, NumPy)**, **C#**, and **SQL**, with strong theoretical foundations in **ML** and **Deep Learning (IML, IDL)**. Hands-on experience in managing **production environments (IIS, Cloud Databases)** and a basic understanding of containerization with **Docker**.

Experience

E2E Software Engineering (Personal Projects) | 2024 – Present

- **Languages & Frameworks:** C#, Java, Dart, SQL (PostgreSQL), ASP.NET, Flutter, Node.js (Express), **Python(PyTorch, NumPy, Matplotlib, tqdm)**.
- **Architecture & ML Lifecycle:** E2E System Design, Database Schema (ERD), RESTful APIs, Model Integration Pipelines.
- **Tools & Tech:** **Gemini API**, Git, **Docker** (basic knowledge), OAuth 2.0, Stripe, **Cloud Hosting (Somee, Neon)**.
- **Engineering:** Modular Code Design, Debugging, Production Troubleshooting, Deployment & Monitoring.

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 (AI-Driven Web App)

- **Inference Pipeline:** Integrated **Gemini API** (NLP) with **TMDB API** for dynamic metadata and real-time inference.
- **Infra & DevOps:** Deployed E2E system on **IIS/Neon PostgreSQL**; managed environment configs, Assembly Bindings, and **Cloudinary CDN**.
[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 inference through Top-k Sampling. Focused on model logic and computational efficiency.
[Transformer Project](#)

Education

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

- Computer Science student, expected graduation: 2027.
- **Relevant Courses:** **Intro to Machine Learning (IML)**, **Intro to Deep Learning (IDL)**, 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.**