

# Shimon Ifrach

## Contact

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## Skills

**Programming Languages:** Python, Assembly, C, C++, Java, C#, JavaScript.

**Web Technologies:** HTML, CSS, JS, ASP.NET.

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

**Tools:** Git, Visual Studio, VS Code.

**Data bases:** PostgreSQL, Microsoft Access.

## Languages

English – fluent

Hebrew – native

## Summary

Computer Science student (B.Sc., Hebrew University, 2027) with a strong interest in Software Engineering and hands-on development experience.

Built *MoodCast*, a smart web app using C#, JS, CSS.

Skilled in ASP.NET (C#) and Java.

Self-taught, independent, and eager to grow. Calm under pressure a trait honed through years of competitive sports.

Looking to apply my skills, discipline, and curiosity in a real world full stack role.

## Experience

### Full Stack Developer

Self-Initiated Projects · 2024 – Present

- Architected **MoodCast** using **ASP.NET (C#)** and **PostgreSQL**, integrating **OpenAI**, **Google OAuth**, and **Stripe**.
- Developing **Runio**, a cross-platform mobile application using **Flutter (Dart)**, focusing on efficient state management and UI/UX.
- Managed the complete SDLC from system architecture and database design to deployment.

### Computer Science Bagrut Teacher

IASA High School · 2024-Present

- Teaching 5–10 unit computer science courses, including Java, Data Structures, Web Development, and Automata with good success rate at students grades.
- Focused on hands-on skills and Bagrut exam preparation.

## Projects

### MoodCast

A self-initiated web app that recommends movies based on the user's mood using an AI agent. Includes user registration and login (including Google OAuth), backed by a PostgreSQL database. Built with ASP.NET Framework (C#), HTML and CSS.

[MoodCast Personal Project](#)

### Image-Processing

This project involves image processing tasks such as resizing, converting to black and white, and cartoonifying pictures.

[Image Processing Project](#)

## Education

### Bachelor of Science – The Hebrew University of Jerusalem, Jerusalem

- Second year 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, mathematic and academic writing
- Final grade: 100