

Eran David Tzarum

Full Stack Software Developer

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PROFILE

Computer Science graduate (B.Sc.) with a strong upward academic trajectory and hands-on experience in backend development and AI-based systems. Initiator and Lead Developer of an ongoing consumer-tech project incubated within the 8200 IMPACT accelerator. Built machine learning models and full-stack systems in high-pressure environments. Proven ability to deliver functional prototypes and present technical vision to investors. Seeking a Full Stack Software Developer position.

TECHNICAL SKILLS

Programming Languages: Python, C#, Java, Dart, C++, SQL, JavaScript, HTML/CSS

Backend & Data: REST APIs, Supabase (PostgreSQL), Firebase, Google Gemini API, Scikit-learn

Frontend & Tools: Flutter, Unity Engine, Android Studio, Git, Linux/Unix, VS Code

Concepts: System Architecture, OOP, Machine Learning, Network Protocols (TCP/UDP/RUDP)

SOFTWARE ENGINEERING EXPERIENCE

Smart Fridge – 8200 IMPACT Accelerator Startup Project | *Java, Flutter, Python, Gemini API* 2022 – 2023

- Developed a product roadmap and pitched the technical vision to 50+ investors and industry leaders.
- Developed and deployed an Android MVP (**Java, Firebase**) for early testing, implementing a custom string-matching algorithm that improved recipe recommendation accuracy based on dynamic user inventory.
- [Present] Currently architecting a next-gen cross-platform application (**Flutter, Supabase**) integrating Google Gemini 2.5 Flash for OCR receipt ingestion and conversational features.

"TimeSkip" – AI-Based Assessment Platform | *Python, C#, Unity, Scikit-learn* Grade: 96

- Led the end-to-end development of a full-stack diagnostic system, tested on **104 users** in a real-world educational setting to evaluate behavioral patterns.
- Achieved **85% classification accuracy** on ADHD datasets using Logistic Regression and custom data pipelines.
- Engineered a **Python/REST API** backend integrated with a **Unity (C#)** stealth-assessment game and **Supabase (PostgREST)** data storage.

Communication Networks | *Python, C, TCP/UDP, Socket Programming* Additional Projects

- Custom Protocol Stack (Python):** Built a low-level network ecosystem from scratch, implementing a Reliable UDP (RUDP) protocol with a Go-Back-N sliding window and custom DHCP/DNS servers.
- TCP/UDP Programming (C):** Solved complex networking problems by developing reliable data transfer protocols and congestion control mechanisms using raw OS sockets.

ADDITIONAL EXPERIENCE

"Tziyun LaShevah" Learning Center Herzliya, Israel
Math Instructor & Operations Manager 2021 – Present

- Mentored high-school students in advanced mathematics (5 units), strengthening analytical problem-solving skills.
- Assumed full operational management of the center during the owner's absence, overseeing scheduling, customer communication, and daily operations under high-responsibility conditions.

EDUCATION

Ariel University Ariel, Israel
B.Sc. in Computer Science 2026

- Academic Excellence:** Achieved a **95+ average** in the final year.
- Selected Coursework:** Operating Systems (100), Data Compression (98), Cyber Attack Detection (90).

8200 IMPACT & Shenkar Tel Aviv, Israel
Impact-Tech Accelerator Program Alumni 2022 – 2023

- Graduated a highly selective acceleration program for impact-tech ventures tackling environmental challenges.

MILITARY SERVICE

IDF Reserve Duty – "Iron Swords" War Israel
Operational Duty (Volunteer) 2024 – 2025

- Maintained a **95+ academic average** while serving over **200 days** in high-pressure operational reserve duty.