



ADI TAPIERO

Software Engineer
Backend & Full-Stack

CONTACT

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TECHNICAL SKILLS

Languages

Python, C, C++, Java, C#, JavaScript, TypeScript, SQL

Backend & Data

FastAPI, Flask, REST API design, PostgreSQL, Supabase, Firebase, OpenAI & AssemblyAI APIs

Frontend

React, Next.js, HTML5, CSS3, Tailwind, Redux

Infrastructure & Tools

Docker, Git, Linux/Unix, GCP, Vercel, CI/CD, LAN/WAN networking

Foundations

Data Structures & Algorithms, OOP, Operating Systems, Computer Networks, System Design, Secure Coding

CERTIFICATIONS

Network Administrator, Level 6
IDF C4I Corps · 2022

Instructor Diploma
Ministry of Education · 2024

LANGUAGES

Hebrew — Native
English — Full professional

AVAILABILITY

Full-time position
Open to relocation

Software engineer completing a **B.Sc. in Computer Science** (expected 2027), who builds and ships systems end to end — from **FastAPI** services and asynchronous data pipelines to **React** front-ends. Comfortable across the stack and close to the metal: **C/C++** for performance-critical work, **Python** for services and automation, **Docker** and Linux for everything in between. Three years of hands-on technical work across network infrastructure and technical instruction. Available for a **full-time backend or full-stack engineering** role.

PROJECTS

- Accessible Academic — AI Lecture Platform** 2025 – Present
accessible-academic-backend.vercel.app · team of 2
Python · FastAPI · PostgreSQL · SQLAlchemy · FFmpeg · Vercel
 - Turns university lecture recordings into captioned video and generated study material — topics, summaries and flashcards — built for students who cannot rely on listening alone.
 - Asynchronous **FastAPI** pipeline — FFmpeg normalization → **AssemblyAI** Hebrew speech-to-text with word-level timestamps → LLM generation — so long jobs run in the background and the API stays responsive.
 - Built a **grounding validation pass** that re-checks every generated summary and flashcard against the source transcript and rewrites or drops unsupported claims — study material cannot drift into model invention.
 - Deployed serverless on Vercel over PostgreSQL, with full **RTL/Hebrew** support including PDF export.
- BiteWise — Nutrition Tracking PWA** 2026 – Present
bitewise-gray.vercel.app
Next.js · TypeScript · Supabase · Postgres · OpenAI · Tailwind
 - Bilingual (Hebrew/English) nutrition-tracking app running in production, with full RTL/LTR layout, Google sign-in and PWA install.
 - Live **barcode scanning** (native BarcodeDetector, ZXing fallback) against Open Food Facts, plus AI reading of nutrition labels from photos for products missing from every database.
 - Secured every table with per-user **Row Level Security**; AI calls are rate-limited per user and cached in Postgres to keep cost bounded.
- RecipeBook — Instagram Recipe Parser**
recipe-book-one-psi.vercel.app
Turns Instagram recipe posts into a structured personal cookbook — parses free-text captions into normalized ingredients and steps. Python, Flask, Google OAuth.
- Study Buddy — Matching App**
study-buddy-seven-vert.vercel.app
Matching algorithm pairing students by course, availability and study style. React client with Firebase Authentication and Realtime Database.

EXPERIENCE

- Programming & Robotics Instructor** 2024 – Present
Tactics Education
 - Teach **C programming** and embedded development on **Arduino** to student groups, from syntax through pointers and memory management.
 - Design project-based curricula and hands-on debugging exercises; review and troubleshoot student code and hardware wiring.
- Network Administrator** Aug 2021 – Aug 2022
Israel Defense Forces — C4I (ICT) Corps
 - Deployed, maintained and secured **LAN/WAN infrastructure** serving 100+ users.
 - Monitored network traffic, resolved OS-level connectivity faults and enforced access-control policy; **cut network downtime by ~25%** through proactive monitoring and faster incident response.

EDUCATION

- B.Sc. Computer Science** 2023 – 2027 (Final Year)
The Academic College of Tel Aviv-Yaffo
 - Relevant coursework: **Data Structures & Algorithms, Operating Systems, Computer Networks, Advanced Programming in C, Object-Oriented Programming (C++), Databases, System Design.**