Barak Tal

Applied AI & AI Product Builder

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SUMMARY

Applied AI builder who ships full-stack AI products end-to-end: LangGraph agent orchestration, Anthropic Claude and OpenAI APIs, RAG, LoRA fine-tuning, and transformer architectures implemented from scratch in PyTorch. Shipped a live agentic fantasy-sports product (Lightning) and an AI-powered tool for a real SF Bay Area business (Gate Vision), on top of product analytics at Terra Security, an AI-driven cybersecurity startup, and transaction-diligence analytics at EY-Parthenon. Business & Data Analytics graduate of Reichman University (GPA 91), bringing a strong analytical and commercial perspective to AI product decisions. Looking for applied AI, AI solutions and AI product roles.

SKILLS

AI & LLMs: LangGraph, Anthropic Claude API, OpenAI API, agent orchestration, tool use, RAG, prompt engineering, LoRA fine-tuning

Deep Learning: PyTorch, transformers, attention mechanisms, CNNs, LSTMs, HuggingFace Transformers

Data & Analytics: Python, SQL, Pandas, NumPy, scikit-learn, Tableau, Power BI, time series forecasting

Tools: Git, Docker, Jupyter

Languages: Hebrew (native), English (fluent)

EXPERIENCE

Product & Data Intern (part-time) | Terra Security Nov 2025 – Jul 2026

- Product analytics at an AI-driven cybersecurity startup; built an internal system to evaluate the company's AI pentesting agents (Intent Analysis System - see Projects)

Business Analyst | EY-Parthenon Nov 2025 – Present

- Build analytical models and dashboards for SaaS and technology companies; analyze ARR, NRR, churn and LTV across large datasets
- Translate complex datasets into decision-ready insights for senior stakeholders across multiple transaction diligence engagements

Co-Founder & Manager | Pop-Up Shop, Hangar 11 2025

- Launched and ran a retail operation generating several hundred thousand NIS monthly; owned concept, pricing, logistics and team management

AI PRODUCT PROJECTS

Lightning - Fantasy GM Agent (deployed, live demo) - Agentic AI product for NBA fantasy basketball: a LangGraph/Claude agent reasons over live Yahoo Fantasy data to recommend trades and waiver pickups. Shipped end-to-end - FastAPI, React chat/dashboard/trade-analyzer UI, Postgres, and LangSmith evals as a pre-ship quality gate. Live: fantasy-gm-agent.vercel.app

Gate Vision (shipped for a gate & garage-door installer) - Turns entered specs into a dimensioned, branded illustration plus an AI-generated photorealistic render on the customer's house photo (Gemini/OpenAI); exports PNG/PDF for sales. Deterministic SVG drawing engine covering four product types.

Intent Analysis System (Terra Security) - Production analytics pipeline evaluating AI pentesting agents from conversation traces: Sentence-BERT pre-scoring plus Claude structured extraction (tool-use API). Four analytics engines - intent distribution, satisfaction, a CORE/NOISY/NICHE/REMOVE skill quadrant, and a skill-gap recommender - plus an LLM-as-judge calibration step against human ratings.

SDR Agent (independent, deployed) - Autonomous outbound agent (LangGraph, GPT-4 Turbo): reads leads from Google Sheets, drafts personalized emails, sends via Gmail API (OAuth2, retry/backoff, DRY_RUN mode, send caps). Deployed on HuggingFace.

Academic ML (NLP course) - LoRA fine-tuned DictaBERT for Hebrew sentiment (43,600 examples, Macro F1) beating GPT-4o zero/few-shot and RAG baselines; separately built a GPT-style transformer from scratch in PyTorch (self-attention, causal masking, LayerNorm).

EDUCATION

Business & Data Analytics | Reichman University · GPA 91 2023 – 2026

- Relevant coursework: Deep Learning · NLP · Machine Learning · Time Series Forecasting · Big Data · Network Analysis · Statistics

MILITARY SERVICE

Combat Soldier & Commander | IDF - Egoz Unit; Israeli Air Force 2017 – 2020

- Combat soldier in Egoz; Basic Training Commander and Sergeant; completed 3-month IAF pilot training course