Natanel Richey   <mark>Interactive CV Here! https://cv-website-navy.vercel.app/</mark>

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https://www.linkedin.com/in/natanelrichey
https://github.com/NatanelRichey

Software-developer skilled in Python and JavaScript focused on App Design and Machine Learning

Experience in building full-stack websites, training AI models, data analysis (with AI), and collaborating on innovative projects.

Fast learning, hard-working, hungry for more and passionate about designing innovative solutions that bridge the gap between human behavior and machine intelligence, applying computational methods to understand complex data while maintaining focus on user-centric design and ethical AI development.

EDUCATION

Hebrew University of Jerusalem
BSc. in Computer Science, B.A. in Psychology (Hons.)
Jerusalem, Israel
2021 - 2025

EXPERIENCE & PORTFOLIO

MealCreator - Full-Stack React Website
A full-stack Progressive Website for meal planning and pantry management.
• Real time data sync using React Query with optimistic updates and intelligent cache invalidation, reducing API calls by 80%+
• TypeScript implementation across Next.js components, RESTful backend API, MongoDB and Mongoose schemas

Technologies: Next.js, TypeScript, MongoDB, React Query, Cloudinary, Vercel, PWA
Demo: https://meal-creator-delta.vercel.app
GitHub: https://github.com/NatanelRichey/MealCreator

TheraBot - Fine-tuned AI Model
Fine-tuned Llama model using HuggingFace Transformers with LoRA ranking on therapy conversation datasets.
• RAG implementation using FAISS vector store with E5 embeddings
• Weights & Biases experiment tracking and model monitoring
• Deployment on HuggingFace Spaces and Google Colab with GPU acceleration

Technologies: Python, AI Model Training, LoRA Fine-tuning, NLP, RAG implementation
GitHub: https://github.com/NatanelRichey/therabot
Demo: Available on Request

Interactive CV Website
An animated CV built with Next.js, TypeScript, and Framer Motion to showcase development skills.
• TypeScript end-to-end type safety. Next.js App Router with Server Components
• Framer Motion scroll animations. Theme system with localStorage persistence

Technologies: Next.js, TypeScript, Tailwind CSS, Framer Motion

Live: https://cv-website-navy.vercel.app/
GitHub: https://github.com/NatanelRichey/cv-website

WhatsApp Crawler with AI Sentiment Analysis
Automated WhatsApp data collection tool with integrated API-based AI sentiment analysis to extract insights from conversations.
• Automated data collection from WhatsApp. Integration with AI sentiment analysis APIs
• Data visualization and reporting. Privacy-focused architecture

Technologies: OpenAI API, Web Scraping, Data Analysis

GitHub: https://github.com/NatanelRichey/NeedleWhatsappCrawler

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SKILLS

Languages: JavaScript, TypeScript, Python, SQL, C, C++, Java
Frontend: React, Next.js, Tailwind CSS, HTML/CSS, Framer Motion
Backend: Node.js, Express, MongoDB, PostgreSQL, REST APIs, React Query
Tools: Git, Docker, VS Code, Postman, Cloudinary, Vercel
AI/ML: LoRA Fine-tuning, RAG implementation, HuggingFace Transformers
Other: OOP, Operating Systems, Algorithms and Data Structures, Statistics and Computational Methods, OpenAI API, Web Scraping, Data Analysis, PWA

REFERENCES available upon request