

# Adi Yehuda

## About Me

 36 y/o, Male |  Tel-Aviv, Israel |  EN, HE |  EU, IL

I'm a passionate engineer with strong technical background in Web Applications, Product R&D and HW. My focus is on creating innovative, high-quality solutions. My journey began at Tel Aviv University, where I balanced SW & HW engineering studies with an ever-growing interest in programming and web apps.

After several years leading product R&D in the energy sector as an HW engineer, I focused on full-stack web development and started building interactive, scalable applications that streamline innovation and user experiences. My background in hardware and embedded systems equips me with a unique perspective in bridging the gap between HW and SW solutions, together with strong PM skills.

I am driven by a desire to push boundaries, explore cutting-edge tech and collaborate on impactful ideas. Whether it's a dynamic application, platform, product or any other AI driven Ideas - I'm always ready to deliver a professional, meaningful and future-proof development.

## Professional Experience

- **Application Engineer** | Self-Employed, 2023-Present

Designing and developing full-stack, modern web applications and SaaS platforms with a strong focus on scalability, clean user experience, and cloud-native architecture. Balancing both front-end interfaces and backend infrastructure including cloud services and functions, database, authentication and integration of data pipelines. Leveraging automation with AI and APIs and cloud platforms to speed up development and optimize workflows. Proficient in:  
Node.js, JS & TS, React, Next.js, Firebase, Postgres, MongoDB, AWS, GCP, AI, Python, OCR, Payment.

- **Hardware & Product Engineer** | SolarEdge R&D, 2019-2023

Led multidisciplinary development of advanced analog/digital hardware systems for renewable energy products. Responsible for the full product cycle - from early design and prototyping, Board design and architecture to validation and mass production. Collaborated with firmware, QA, and manufacturing teams to ensure system-level reliability. Built automated test frameworks and real-time data tools using Python and C# to streamline validation processes. Experience with DSPs, wireless communication, power electronics, and system-level debugging. Known for hands-on problem solving and cross-domain coordination.

- **Teaching Assistant** | Tel Aviv University, 2019-2020

Frontal lectures for TAU engineering students in mathematics and physics. lessons and marathons to practice complex topics, driving higher exam success rates. Focusing on problem solving skills, out of the box thinking and creative approaches.

- **Senior Math & Physics Tutor** | Archimedes LTD, 2016-2019

## Education

- **B.Sc. Electrical Engineering** | Tel Aviv University, 2014-2019

Majors in computers, control systems, and electromagnetics:

1. **Computers & Programming** - In-depth computer science courses including:  
Python, C++, JavaScript, Computer organization, HW-SE interfaces, Algorithms, Data Models, OS, encryption, network protocols.
2. **Electromagnetic Radiation** — Waves propagation, Radiation and Transmissions.
3. **Controlled Systems** - Feedback loops, logic blocks, and control theory fundamentals.

- **AI engineering for developers** | Microsoft & Coursera, 2024

In-depth courses on AI engineering, covering advanced topics in AI models, prompt engineering, AI params, optimization, caching and other methods to improve performance. Focused on practical applications and real-world scenarios- Hands on experience with various AI tools and platforms, including:

Open AI, Claude/Anthropic, Azure AI, Gemini, Co-pilots, AI Agents, MCPs .  
On top of that I participated in a Microsoft Webinar on AI engineering, where I learned about the latest trends and best practices in the field, including co-pilot mastering. In addition, built and deployed multiple projects using various AI tools and platforms, Agents and top AI models.

- **Advanced React & Next.js Development** | Udemy, 2023-2024

In-depth web development, with a focus on modern frameworks like React and Next.js .

Strong API and cloud frameworks, database, auth, server-side rendering and scalable applications.

Also covered advanced topics and best practices in web development, including professional UI/UX design, performance optimization, and security measures.

Tailwind, Radix UI, ShadCN, daisyUI, Ant design, MUI, Next-auth, Vercel-AI.

- **UI/UX and Web design** | Udemy course 2023

multiple courses on UI/UX design and web development including various tools and techniques.

Figma, Typography, Color Theory, Design patterns, UI/UX, Responsive design.

- **The Complete Web Development Bootcamp** | Udemy, Dr. Angela Yu

Comprehensive coverage of HTML, CSS, JavaScript, Node.js, databases, and DOM manipulation. Built real-world projects to master front-end and back-end concepts.

- **Python Developer: Zero to Mastery** | Udemy, Andrei Neagoie

Advanced Python programming for automation, web scraping, data analysis, and basic machine learning. Gained solid understanding of libraries like NumPy, Pandas , Selenium, and more.

## Contact Me

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