Lev Zhitnik

Full-Stack & AI Engineer | Clean Architecture, Developer Tools, and AI-Driven Interfaces

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Informed by my background in architecture and computational design, I build scalable software with clean, maintainable code. As a co-founder who shipped a generative AI platform, I specialize in leading products from concept to a successful real-world launch.

Work Experience

Stealth-Mode Startup ▪ Full-Stack Engineer ▪ Remote ▪ 09/2024 – present

Building a platform that transforms structured content into editable, narrated developer-facing outputs using a modern web stack.

- Architecting and building a full-stack AI platform from scratch, featuring a Python backend (**FastAPI**, **PostgreSQL**, **Redis**) and a dynamic frontend (**Next.js**, **TypeScript**, **Tailwind**, **Zod**).
- Designing and implementing **modular, agentic AI workflows** using **LangChain**, **Pydantic**, and various **LLM APIs** to handle complex content transformation, narration generation, analysis and conclusions.
- Leading **UI/UX implementation** in collaboration with designers, building a real-time editing interface and leveraging tools like **Microsoft Clarity** to analyze user behavior and incorporate feedback.
- Managing the **complete development lifecycle**, from infrastructure deployment on R2 Cloudflare to ensuring code maintainability and scalability in a fast-paced, high-trust environment.

CTies ▪ Co-Founder ▪ Chief Product & Software Lead ▪ New York City Metropolitan Area ▪ 03/2022 – 09/2024

Architected and delivered a city-scale **Generative-AI platform** to model millions of 3D urban designs, replacing fragmented workflows with a unified, programmable logic system. *www.cties.net*

- **Engineered and scaled end-to-end systems** using **Python**, **Flask**, **React**, **PostgreSQL**, **Mapbox**, and **Pandas** for data analysis.
- **Collaborated with government and enterprise stakeholders** to prototype and ship decision-making tools, iterating through weekly feedback cycles to ensure alignment.
- Designed the **core optimization logic** that processed climate metrics and zoning regulations, directly informing planning decisions for over 100,000 future residents. https://bit.ly/4kucGvO
- Built the **generated AI engine** that **accelerated decision-making** across multi-disciplinary teams by replacing manual drafting.

Navon Systems ▪ Owner ▪ Automation & Systems Consultant ▪ Remote ▪ 05/2022 – present

Delivering **custom automation tools** for physical manufacturing and simulation-driven workflows.

- Develop **Python**, **RhinoCommon**, and **Grasshopper** systems that eliminate repetitive modeling and have **reduced fabrication errors by up to 66%**.
- **Train technical and non-technical teams** on how to adopt custom, data-driven tools, embedding new automation processes into high-pressure production environments.
- Create **generative 3D workflows** and **AI-driven automation scripts** to multiply iteration capacity and unlock new strategies.

Shaga Architects ▪ Computational Design Lead ▪ Tel Aviv District, Israel ▪ 12/2018 – 02/2022

Developed advanced modeling logic for public-sector projects, creating **batch-processing systems** to validate compliance and environmental KPIs. *www.sha-ga.com/urbanism*

- Built **Python** and **Grasshopper** systems for simulating solar performance, density, and mobility efficiency.
- Created and delivered **parameterized toolkits** that enabled designers to toggle tradeoffs, automate documentation, and validate outcomes across 10K+ variations. *https://sdedov.co.il/about-sde-dov-district/*
- These workflows **reduced project modeling time by 40%**, supporting planning for urban districts of up to 207,000 residents.

Technical Skills

TypeScript ▪ Python ▪ React ▪ Next.js Node.js ▪ Express.js ▪ PostgreSQL ▪ AWS Docker ▪ Swagger	LLM APIs ▪ LangChain ▪ Pydantic ▪ Pandas Zod ▪ RAG ▪ Playwright	Rhino3D ▪ Grasshopper ▪ RhinoCommon Mapbox ▪ GIS ▪ LunchBox ML ▪ PUG

Education

- **B. Arch ▪ Technion – Israel Institute of Technology ▪** 10/2014 – 04/2020
- **Full-Stack Engineer Career Path ▪ Codecademy ▪** 09/2023 – 02/2024
- **Applied Data Science Program ▪ MIT Professional Education ▪** 08/2024 – 10/2024
  Certificate: http://bit.ly/3GUsyZX