

Vadym Brovych

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SUMMARY

Full Stack Developer with hands-on experience in delivering modern web solutions using React, Next.js, TypeScript, and Node.js. Passionate about intuitive design, clean code, and building products that solve real problems. Quick to adapt, easy to work with, and always focused on quality and usability.

SKILLS

Frontend: React, React Native, Next.js, Tailwind CSS, Redux, Zustand, TanStack Query, Framer Motion, HTML5, CSS3, SASS, JavaScript, TypeScript

Backend: Node.js, Express.js, FastAPI
Databases: PostgreSQL, MySQL, SQLite, Supabase, Firebase

Other: Python, Java, Git, REST APIs, MQTT, JSON, Docker, Vite, Figma, Vercel, Photoshop

EDUCATION

Technical University of Košice – FEI
Bachelor of Science in Computer Science

Sep 2022 - June 2025

Lviv Polytechnic National University – Technical College
Software Engineering

Sep 2020 – June 2022

Languages

English(B2)

Slovak(B2)

Ukrainian(C2)

Russian(C2)

PROJECTS

Personal Portfolio Website

[GitHub](#) | [Live](#)

A **scroll-based portfolio site** with animated UI, optimized for showcasing projects and contact info.

- Dynamic sidebar, project hover effects, typewriter hero section
- Deployed on Vercel using Next.js App Router architecture

Worked with: Next.js 15, Tailwind CSS, Framer Motion, Zustand

EverStock — Cross-Platform Inventory Management App

[Video](#)

A **mobile-first inventory system** built for logistics, warehousing, and small-scale operations. Offers **real-time product control, team collaboration, analytics**, and **secure authentication**.

- Team-based inventory access with role management via Clerk
- Instant stock updates, low stock alerts, and full change history
- Analytics dashboards and CSV/JSON export for business insights

Worked with: React Native, Expo, TypeScript, Supabase, Clerk, Zustand, TanStack Query

1024 Puzzle — Online Game with Leaderboard & Power-Ups

[GitHub](#) | [Video](#)

A **feature-rich puzzle game** inspired by 2048, designed for modern web with added challenge and player retention tools.

- Login system, real-time leaderboard, and feedback section
- Unlockable superpowers and multiple grid sizes for replayability
- Responsive UI with dynamic themes for desktop and mobile

Worked with: React, Spring Boot, TypeScript, SCSS, Vite, Bootstrap

SmartAttendance — IoT-Based Attendance System with RFID

[GitHub](#)

An **end-to-end smart attendance system** using **custom IoT hardware** and **real-time sync via MQTT**. Designed for **universities and training centers**.

ISIC card check-ins with LED/OLED feedback on device
MQTT-powered sync between device and backend dashboard
Teacher & student portals for managing schedules and attendance

Worked with: React, FastAPI, MQTT, Raspberry Pi Pico, Tailwind CSS, SQLite

Magic Puzzle Solver — Visualized Algorithm Explorer

[GItHub](#) | [Video](#)

A **full-stack educational tool** for visualizing algorithms (**A***, **Greedy**, **DFS**) on 8/15 puzzles. Created for **AI education and benchmarking**.

- Animated solving process with performance metrics
- Batch testing, heuristic comparison, and visual dashboards
- Used for algorithm demos in academic contexts

Worked with: React, TypeScript, Tailwind CSS, FastAPI, SQLite

Eco Purchases Extention to Bank App

[Erste Digital Hackathon 2024](#)

An **extension for a banking app** that analyzes the environmental impact of user purchases.

- Provides users with insights into the sustainability of their spending habits
- Uses data analytics to assess and visualize the carbon footprint of transactions
- Implements secure OAuth2 + JWT authentication for financial data access

Worked with: FastAPI, Python, PostgreSQL, Pandas, React, TypeScript

AI-Assisted Document Validation Platform

[T-Systems Hackathon 2024](#)

AI-powered tool for document quality control and compliance with organizational standards.

- Uses LLMs and historical data to autofill and validate documents
- Supports Human-in-the-Loop (HITL) for refining AI-generated suggestions
- Integrated front-end for manual validation and real-time feedback

Worked with: Python, FastAPI, TypeScript, React, scikit-learn