



Petrică-Constantin Zahapschi

1st-year Computer Science (Artificial Intelligence) student at the West University of Timișoara. Focused on web and mobile application development (React, Next.js, TypeScript) and Python. Active hackathon participant (iTEC, ITFest, UniHack), experienced in building functional MVPs under tight deadlines, integrating APIs, and collaborating effectively within technical teams.

Personal Info

- +40773925809
- petricazahapschiz@gmail.com
- Timișoara, Romania

Links

- [Github](#)
- [Linkedin](#)
- [Portfolio](#)

Skills

Programming Languages:

- JavaScript, TypeScript, Python, C/C++

Frontend & Mobile: React,

- Next.js, React Native, HTML/CSS (Tailwind)

Backend & Databases:

- Node.js, REST APIs, MongoDB, Firebase

Core Concepts & Tools: AI Integrations (LLMs,

- Computer Vision), Real-Time Web (WebSockets), Git/GitHub, Agile/Hackathons

Soft Skills: Team

- Collaboration, Rapid Prototyping (Hackathons), Problem Solving.

Languages

- English (B2)
- Romanian (Native)
- Spanish (A2)

Education

Bachelor's Degree in Computer Science (Specialization: Artificial Intelligence), West University of Timișoara (1st year)

October 2025 - Present

Work Experience

React Native Developer (Hackathon Project), ITFest 2026

Developed "REPS", an AI-powered fitness and nutrition tracker (React Native, Expo, Firebase) under a tight hackathon deadline. Implemented MediaPipe Pose for real-time AI motion tracking to validate user posture, correct form, and count repetitions. Integrated the Google Gemini API to build an intelligent nutrition assistant capable of calculating macros and generating personalized meal plans.

Full-Stack Developer (Hackathon Project), ITFest 2025

Developed "FarmFlow", a full-stack agricultural management platform (Next.js, Tailwind CSS, MongoDB). Engineered interactive maps using Leaflet for precise plantation zoning and tracking. Integrated Google Gemini AI to provide smart crop analysis, rotation suggestions, and automated PDF reporting. Built a real-time community chat using Socket.IO to facilitate networking and knowledge sharing among farmers.

Full-Stack Developer (Hackathon Project), iTEC 2025

Developed "Studentious", a full-stack educational platform (Next.js, MongoDB) with custom cookie-based authentication and role-based access control. Engineered an automated content pipeline using AI to summarize and translate uploaded course materials, integrating the ElevenLabs API for high-quality text-to-speech generation. Built real-time collaboration tools including live chatrooms and Agora-powered video conferencing. Optimized backend performance with session caching and implemented Node-cron for scheduled automated email notifications.