

## WORK EXPERIENCE

### Worker

aluplast GmbH

📅 2021 📍 Karlsruhe, Germany

Summer job in window and door processing, improving the German language and working with new people.

### Summer job in beverage distribution

📅 2022 - 2024 📍 Spišská Nová Ves, Slovak republic

Seasonal job assisted with the distribution and delivery of beverages to various businesses and retail locations.

### Freelance Web Developer

📅 2024 - present

Designed and prototype some web pages/applications.

## SKILLS AND KNOWLEDGE

- Bachelor's Thesis: Artificial Intelligence in the Routing Process in MANET Networks (Python) - integration of the PSO (Particle Swarm Optimization) algorithm with a network routing protocol to enhance routing metric values, crucial for efficient packet delivery. (NS3 simulator)
- Master's Thesis: AI Support System for Emergency Call Operators - full-stack web application with real-time speech processing (websocket) and LLMs for automatic transcription, content analysis, and key information extraction during emergency calls. (React, Express)
- Developed the "Tuláčikovia" mobile and web application as part of the "Živé IT Projekty" in collaboration with company Accenture and our university. I was responsible for the design and implementation of a web application – from initial UI/UX design in Figma to developing dynamic React (JavaScript) components. Integrated REST API for data handling, including functionality for fetching data, creating new events, and managing appeals.
- School project: web app to recognize brain bleeding from DICOM images (Angular and Javascript)
- Intermediate Knowledge in Technologies: JavaScript (ES6), ReactJS, TypeScript, NextJS, Java, NodeJS, HTML5, CSS (Tailwind), MongoDB, PostgreSQL, Docker, Cloud Technologies (Azure)
- Web Development Coursework: Created web applications covering frontend, backend, and database (CRUD application development).
- Driver's License: Category B
- good communication skills

## EDUCATION

### Gymnasium of St. Francis of Assisi

📅 2016 - 2020 📍 Levoča, Slovak republic

### Technical university of Košice

Faculty of Electrical Engineering and Informatics

Study Program: Computer Networks (Bachelor's Degree)

📅 2020 - 2023 📍 Košice, Slovak republic

### Technical university of Košice

Faculty of Electrical Engineering and Informatics

Study Program: Informatics (Master's Degree)

📅 2023 - 2025 📍 Košice, Slovak republic



Ing. Martin Lapšanský

## Contact

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📅 24 years old

## About me

I am a graduate of informatics from the Technical University of Košice. I have experience developing full-stack web applications using React, Node.js, and MongoDB. My master's thesis involved building a real-time AI-based system for emergency call analysis using speech-to-text and large language models. I am familiar with REST APIs, WebSockets, and cloud deployment. I enjoy solving real-world problems with code and continuously learning new technologies.

## Language skills

English - Upper-Intermediate (B2)

## Hobbies and interests

Cycling, football, fitness, accordion playing, folk music.