

Yaroslav Marochok

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ABOUT ME

Third-year Computer Science student at the Slovak University of Technology (FIIT STU) with hands-on experience in developing and deploying backend applications using Python, FastAPI, Docker, and PostgreSQL. Built full-stack projects integrating ReactJS frontends with containerized FastAPI services, focusing on scalability and clean architecture. Experienced in Linux system configuration and basic DevOps practices, including Docker Compose orchestration. Passionate about automation, backend development, and system optimization. Eager to grow technical expertise in cloud environments, and scalable backend design.

PROJECTS

NotesDB – Full-Stack Notes Management Application Mar 2025 - Apr 2025 [check on GitHub!](#)

Project tech stack: FastAPI, React, PostgreSQL, Docker Compose, JWT Authentication

- Developed a containerized web application for creating, updating, and managing user notes.
- Designed and implemented a RESTful API using FastAPI, connected to a PostgreSQL database for persistent data storage.
- Integrated JWT-based authentication and authorization for secure user access management.
- Built an interactive ReactJS frontend communicating with the FastAPI backend via REST endpoints.
- Deployed the entire system using Docker Compose, running backend and database in isolated containers.

Text and File Exchange Console Application

Nov 2024 - Dec 2024 [check on GitHub!](#)

Project tech stack: Python, UDP, WebSockets

- Created a console-based application for exchanging text messages and files over a custom communication protocol.
- Implemented features for connection reliability, data integrity, and secure message exchange.
- The project demonstrated how networks manage communication, data transfer, and connection stability at a lower level.
- Helped me understand the practical side of network design and how theoretical networking concepts apply in real systems.

System Monitor Application

Sep 2025 - now

Project tech stack: Python, FastAPI, PostgreSQL

- Built a client-server system that collects and stores real-time system metrics from connected devices.
- Implemented user and device registration with a custom key exchange mechanism for secure communication.
- Designed a device fingerprinting system, allowing the server to recognize returning devices without re-registration.
- Developed the backend with FastAPI and a PostgreSQL database to manage logs, users, and device activity.

EDUCATION

2023 - present

Bachelor's Degree at **Slovak Technical University — FIIT (Expected Graduation: 2026)**

Focused on software engineering, computer networks, and system development.
Completed projects in backend development, networking, and system automation.

SKILLS

Languages:

Python, Rust, JavaScript

Frameworks:

FastAPI, ReactJS

Tools & DevOps:

Docker, Git

Databases:

PostgreSQL

Systems:

Linux (Arch)

Other:

Bash scripting, REST APIs