

KÓSA MÁTYÁS

Cluj-Napoca, Romania

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EDUCATION

Babeş-Bolyai University

Computer science

Cluj-Napoca, Cluj, RO

Oct. 2022 – present

National High School "Silvania"

Mathematics and Computer Science

Zalau, Salaj, RO

Sept. 2019 – Jun. 2022

TECHNICAL SKILLS

Languages: Java, C/C++, Python, Javascript/Typescript, SQL, Matlab

Developer Tools: Git, Linux, Shell, Docker, Gitlab CI, Github Actions

Databases: MySQL, PostgreSQL, MSSQL, MongoDB, MariaDB

Frameworks: Spring, ReactJS, NextJS, NodeJS, TailwindCSS, PyTorch, Flask, BabylonJS

Deployment: Microsoft Azure, Vercel

Workflows: Agile, Scrum

WORK EXPERIENCE

Software Engineer Intern

Codespring

Oct. 2024 – Jan. 2025

Cluj-Napoca

- Developed a **Python**-based robotic arm to automate hardware testing, ensuring accurate and repeatable test runs.
- Designed and implemented a **React** dashboard to visualize test results in real-time, improving test monitoring and analysis.
- Built a **PostgreSQL** backend to store test and calibration data, enabling efficient querying and reporting of test results.
- Collaborated in a team using **Agile methodologies** to deliver iterative improvements and meet project milestones.

Software Engineer Intern

Hostix

Aug. 2024 – Oct. 2024

remote

- Developed a secure **3D** scan-sharing service using the **MERN** stack (**MongoDB, Express, React, Node.js**) and handled scans up to 30MB.
- Built 3D jaw scan rendering with **React** and **Babylon.js**, enabling interactive patient data analysis.
- Implemented **JWT**-based authentication for secure access and **browser caching**, reducing scan load times by **40%**.
- Deployed backend on **Azure** and frontend on **Vercel** for improved scalability and performance.

PERSONAL PROJECTS

SQUEAL *Java, MongoDB* github.com/SQUEAL

Feb. 2024 – Jun. 2024

- Developed a Java-based DBMS with MongoDB backend, featuring a GUI for CRUD operations, SQL-like queries, and custom indexing for performance.
- Implemented multi-client support via socket programming and built the interface using Java Swing.

Carbazaar *NodeJS, Tailwind, PostgreSQL, Express* github.com/CarBazaar

Feb. 2024 – Jul. 2024

- Created a used car advertisement platform with Node.js, PostgreSQL, and Tailwind CSS, featuring REST APIs for ad management.
- Integrated JWT authentication, real-time messaging with web sockets, and admin controls.

Typing Speed Test *HTML, CSS, JavaScript* github.com/typingSpeedGame

Jan. 2024 – Feb. 2024

- Built a typing speed test app using a public API for random quotes, with real-time WPM and accuracy tracking.
- Deployed on GitHub Pages with a responsive interface.

LANGUAGES

English: C1 Cambridge Certificate, **Romanian:** Professional proficiency, **German:** Basic proficiency, **Hungarian:** Native proficiency