

Köllő Magor Örs

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SUMMARY

Software Engineer and Team Lead specializing in performance-critical, low-latency market connectivity systems for global exchanges. Proven track record of bridging high-frequency trading architectures with autonomous GenAI workflows to automate complex development lifecycles. Passionate about community building and STEM education, actively leading a youth-focused NGO to empower the next generation of leaders, creators, and community builders.

WORK EXPERIENCE

C++ Software Engineer, Team Lead | Broadridge

Dec 2022 - Present

- Leading a team of 7 talented software developers in delivering high-quality, low-latency market connectivity solutions for EMEA and AMER exchanges in Tbricks.
- Providing technical guidance and mentorship, fostering a culture of continuous improvement while collaborating with cross-functional teams to design and implement new features.
- Engineered low latency (sub-microsecond) market connectivity solutions for diverse global exchanges (ICE, B3, CME, Euronext, Nasdaq, DRFQ), with expertise in FIX, ITCH, and SBE protocols.
- Architected an autonomous GenAI workflow (Python, LangGraph, Docker) utilizing RAG and Model Context Protocol (MCP) to bridge project management and development lifecycles.
- Engineered self-improving knowledge bases and autonomous spec evaluators that analyze new requirements, verify the need for codebase modifications, and automatically generate and commit code for scoped tasks, saving dozens of working hours / week.

Software Engineer Analyst | Accenture Industry X.

July 2021 - Dec 2022

- Development of autonomously driven vehicles (Apollo, C++, Python, Cyber RT, CAD 3D)
- Development of a driver monitoring system for safety (C++ Computer Vision), a Rubik Cube solver robotic arm and a digital twin.
- Embedded automotive development for ESRLabs München

Working Student | Bosch Romania

Oct 2020 - June 2021

- Modelling and simulation of a Segway. Stabilization and control of the system using LQR and PID control strategies. Using Matlab, Simulink and Python to model and create 2D simulations;

EDUCATION

Master's in Artificial Intelligence

Oct 2022 - Present

Technical University of Cluj-Napoca | Faculty of Automation and Computer Science

Master's in Business Administration and Entrepreneurship

Oct 2022 - July 2024

Babes-Bolyai University | Faculty of Economics and Business Administration

- GPA: 9.63. Final exam: 10.00
- Thesis on "From Perception to Practice: Drone Technology in Romanian Agriculture"

Erasmus+ Exchange Student

Sept 2023 - March 2024

Ludwig-Maximilians-Universität München | Faculty of Economics and Business Administration

Bachelor's in System & Software Engineering

Oct 2018 - July 2022

Technical University of Cluj-Napoca | Faculty of Automation and Computer Science

- GPA: 9.41. Final exam: 10.00
- Thesis on "Autonomous Harvesting Robot with an Embedded GPU based Approach"

ADDITIONAL INFORMATION

• Technical Skills

- **Software Development:** C++, Python, Java, Git, Docker, Flask, FastAPI, Node.js, Svelte
- **AI & Autonomous Systems:** GenAI / LLMs, LangGraph, Model Context Protocol (MCP), RAG, Computer Vision, Machine Learning
- **Embedded & Prototyping:** Raspberry Pi, Nvidia Jetson, Automotive Ethernet, CAD Design & 3D Printing, Drones

• Soft Skills:

- **Management & Leadership:** Engineering Team Lead, Executive NGO Leadership (Transylvanian Youth Center NGO, delivered 10+ EU-funded youth projects), Canadian Rákóczi Foundation
- **Communication & Mentorship:** Technical Conference Speaker, Panel Moderator, STEM Educator (youth mentoring)

• Languages: English, Hungarian, Romanian

• Conferences:

- Computer Science Student Conference, 2022, Cluj -Napoca, 1st prize
- From Perception to Practice: Drone Technology in Romanian Agriculture
- Speaker at different events (MCC, DeepDive, Vibe, KMK Talks)

• Volunteering

- Vice-president, executive @Transylvanian Youth Center.
- STEM teacher and coordinator @Mathias Corvinus Collegium.