ALEX CSISZÁR

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Education

M.S. in Computer Engineering   02/2026 – (01/2028)
Budapest University of Technology and Economics, Budapest, Hungary

B.S. in Computer Engineering   09/2021 – 01/2026
Budapest University of Technology and Economics, Budapest, Hungary

Awards & Research

Reward, Student Research Societies (TDK) Conference   11/2024
Budapest University of Technology and Economics

- Paper: "Design and evaluation of decentralized collaboration patterns for trustworthy dataspaces"

Experience

Developer   05/2024 – Present
Quanopt Ltd., Budapest, Hungary

- Architected and built a NestJS backend service that queries Google BigQuery to automatically generate and display key performance statistics for exhibition owners.
- Operated as a core developer in a 3-person team, handling the full development lifecycle from gathering customer requirements to defining technical specifications and implementing features.
- Developed an AI-powered generator that automatically scans and populates all empty properties in exhibition data models, ensuring complete and consistent data for the end-user's AI chatbot experience.
- Engineered and integrated a WhatsApp bot to connect with the core AI chatbot backend, allowing exhibition owners to access AI-driven insights and controls directly via their mobile devices.

Projects

Staff Management & Authorization System

- Designed and built a secure NestJS backend for a staff management system, implementing a custom, permission-based authorization system to control data access and protect API endpoints on a granular, per-user basis.

AI Agent & MCP Service Orchestrator (University Project)

- Designing and developing an orchestration service that dynamically registers available MCP servers (microservices) and exposes their capabilities as callable 'tools' to an AI agent.
- This system manages the full data flow: passing tool results back to the AI, and routing the final, tool-augmented response to a second verification AI to ensure accuracy and reliability.

Leadership & Activities

Head of Division, Schönherz Engineers & IT Students Association (SVIE)

- Serving as one of 8 Division Heads on the central leadership board, holding collective responsibility for the operational continuity and financial management of the 52-group association.

A/V & Lighting Technician (Volunteer)

- Ensured high-reliability A/V operations for major university events (including TEDxBME, VIK 75th Anniversary, and Freshmen Balls) by managing live lighting and assisting with audio system setup.

Skills

Languages:	TypeScript, Python
Frameworks & Libraries:	NestJS, Next.js, React, Express
Databases & Data:	PostgreSQL, MySQL, MongoDB, Google BigQuery
Systems & Tools:	Git, Linux, Docker