

CSENGER MOLNÁR

Computer Scientist

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Aarhus

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ABOUT MYSELF

I am a data engineer and data scientist who enjoys working across the full data lifecycle from collecting and structuring data, to building pipelines, processing and modelling it and turning it into useful insights and applications.

I especially like the design side of things: thinking about database structures, data models, and how systems fit together in a clean and scalable way. I also spend a lot of time working with logic-heavy and optimization problems. I also enjoy building supporting applications and dashboards to make data more accessible and usable.

EDUCATION

MSc. in Computer Science

Aarhus University

Sept 2021 – June 2023

Aarhus, Denmark

Specialised in machine learning and data science.

- Machine learning, deep learning, and statistical modelling
- Neural network architectures including CNNs, GNNs, and fully connected networks
- Data mining, clustering, graph algorithms, and large-scale data analysis
- Graph-based data mining and spectral methods

BSc. in Computer Science

Eötvös Loránd University

Sept 2018 – June 2021

Budapest, Hungary

- Software engineering principles, object-oriented programming, and software architecture
- Data structures, algorithms, databases, and computer systems fundamentals
- Mathematics for computer science, including statistics, probability theory and linear algebra
- Web development, REST APIs, version control (HTML, CSS, Javascript)

STRENGTHS

Python

Pytorch

Deep Learning

CNNs

Pandas

Numpy

Tensorflow

Data mining

SQL

Azure

Databricks

Power BI

ETL

Angular

Typescript

Git

CI/CD tools

EXPERIENCE

Data Engineer

HydrogenPro

2026 – Present

Aarhus, Denmark

- Designed and maintained Azure SQL databases for production systems, including database migration, schema design, and performance optimization.
- Built data pipelines connecting manufacturing equipment through Azure IoT Hub into Azure SQL, enabling reliable collection and storage of production data.
- Planned database architecture and data models to support scalable reporting, analytics, and application development.
- Developed internal tools and desktop applications in Python and PyQt to automate workflows and improve access to production data.

Data Scientist

Zeta Diagnostics

2023 – 2025

Aarhus, Denmark

- Performed audio signal analysis using Python (Librosa, NumPy), implementing custom filtering, feature extraction, and preprocessing pipelines.
- Developed and trained deep learning models in PyTorch, including CNN architectures for audio pattern recognition.
- Built a PyQT-based GUI to streamline data visualization, model evaluation, and research workflows.

Junior System Engineer

Systematic

2022 – 2023

Aarhus, Denmark

- Contributed to a large-scale military application used by European Union partners.
- Migrated legacy components from AngularJS to Angular to improve maintainability and performance.
- Implemented minor features, resolved bugs, and performed testing across the stack (Java, Scala, SQL).

Software Developer Intern

Morgan Stanley

2020 – 2021

Budapest, Hungary

- Developed a frontend application in Angular (Typescript) for investors to track stock prices.
- Automated Python workflows for generating and storing daily Excel reports.
- Integrated kdb+ as the data source, building queries to supply time-series data to the frontend.

LANGUAGES

- English: fluent
- Danish: conversation level
- Hungarian: native

MY HOBBIES

- Sports are a vital part of my life. I run a lot, do home workouts and I hold a purple belt in Brazilian Jiu-Jitsu. Additionally, I have competitively played tennis for a decade.
- I played the clarinet for 11 years and I had several solo performances and group performances with a clarinet quartet.
- My other hobby is playing with the Rubik's Cube. I can solve it within 15 seconds and I attend Rubik's Cube solving competitions.
- Last year I started DJing and now I am one of the resident DJs at Studenterhuset Aarhus and Glitch Aarhus. Moreover I have also started learning electronic music production.