



Matej Ciglencečki

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Experience

10.2020. – 10.2021.

Software Engineer – [Memgraph](#)

- designing SQL database and writing feature specs for Memgraph Cloud's backend
- implementing Memgraph Cloud's backend (**node.js**, **TypeScript**, **Sequelize**, **postgres**)
- writing unit and integration tests (**Jest**)
- setting up **Elastic Stack** on **AWS EC2** to analyze application's logs from **AWS CloudWatch**
- creating [educational lessons](#) (**Memgraph**, **Cypher**)
- transforming csv datasets to graph datasets

07.2020. – 10.2020.

Software Engineer Intern – [Memgraph](#)

- implementing geographic graph data visualization in Memgraph Lab (**Leaflet**, **vis.js**)
- refactoring codebase via design patterns (**TypeScript**, **Angular**)
- writing a [summary blog post](#)

07.2019. – 08.2019.

Technical assistant – Conty Plus

- file parsing and data transformations (**Python**)

Education

2021. – present

M.Sc Computer Science – [Faculty of Electrical Engineering and Computing](#), Zagreb

relevant courses: *Deep Learning, Machine Learning, Statistical Data Analysis, Multivariate Data Analysis, Advanced Algorithms and Data Structures, Technology Entrepreneurship, Mathematical Finance, Business Intelligence*

2017. – 2021.

B.Sc Computer Science – [Faculty of Electrical Engineering and Computing](#), Zagreb

relevant courses: *Design Patterns, Databases, Probability and Statistics, Artificial Intelligence, Communication Networks, Network Programming, Fundamentals of Business Information Systems, R language*

2013. – 2017.

School of Electrical Engineering, Zagreb

Skills

web dev backend

databases

data science and statistics

machine and deep learning

script languages

web dev frontend

low-level programming

object oriented programming

advanced knowledge (**node.js**, **Sequelize**, **TypeScript**)

intermediate knowledge (**postgres**, **SQL**, **Memgraph**, **Cypher**)

intermediate knowledge (**R**, **Python**, **numpy**, **pandas**, **matplotlib**)

intermediate knowledge (**PyTorch**, **scikit-learn**, **torchvision**)

intermediate knowledge (**Python**, **bash**)

intermediate knowledge (**React**, **TypeScript**, **HTML**, **CSS**)

intermediate knowledge (**C**)

intermediate knowledge (**Java**)

Workshops and projects

2022.

[Implementation of driver fatigue detection in an EEG-based system – Data Science course project](#)

- data analysis, feature extraction, model training and prediction of driver's fatigue with slightly better results compared to the research article

2021.

[Student success analysis – Statistical Data Analysis course project](#)

- led a team of 4 in the Statistical Data Analysis course project written in R
- t-tests, chi-squared test, Fischer's test, normality tests, f-tests, ANOVA, linear regression

2020. (1 week)

Soft skills academy – leadership group

2019. (1 week)

DataCrunch – data science academy

- predicting bankruptcy of Croatian companies with machine learning techniques in R

2019. (2 months)

AG04 – Spring Boot Summer School

- going through a Java Spring course
- building a web application with Java Spring in a 2-day hackathon in a group of 5 people

2018. (1 week)

DataCrunch – data science academy

- predicting bankruptcy of Croatian companies with machine learning techniques in R

2017.

Tourism culture 2017 – „Moj Zagreb kak imam te rad“

- directing, recording and editing a video which promoted city of Zagreb
- collaboration with Tourist Board Zagreb

Languages

English

fluent proficiency

German

elementary proficiency

Hobbies

Cooking, body-weight exercising, running, reading, photography, learning, side-projects

Interests

Computer science, software engineering, data science, deep learning, computer vision, machine learning, statistics, competitive programming, finance, leadership, team cohesion, communication, soft skills, personal development, health, privacy, music