



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

2021.

[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

Interests

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

Hobbies

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