

EDUCATION

- **Czech Technical University** Prague, Czech Republic
Bachelor of Knowledge Engineering; Mean of grades: 2.061 (lower is better) *Sep. 2021 – Feb. 2023*

EXPERIENCE

- **Avast** Prague, Czech Republic
Data Engineering Internship *Nov 2019 - Aug 2020*
 - Implemented and maintained asynchronous ETL's in Java with Spring Webflux and C#.
 - Improved ETL's execution time 10x by optimizing API calls.
 - Implemented and maintained API for OLAP cubes in ASP.NET (learned a little bit of DAX and MDX).
- **Roboauto** Brno, Czech Republic
C++ Developer Internship *Nov 2022 - Feb 2023*
 - Implemented an interface for testing communication protocols in embedded system based on ARM chip.

PROJECTS

- **Bachelor's thesis on CLV prediction:**
 - Implemented a CLV predicting widget extension for an open-source project [REMP](#).
 - Did a research on state-of-the-art methods on predicting CLV of a customer in a subscription-based business setting.
 - Trained Probabilistic model, Random forest and NNs on the [KKBox](#) dataset and benchmarked them.
- **[Arkanoid game in C++](#) :**
 - Showcased knowledge of OOP principles
 - Used [ncurses](#) library for graphics
 - Used [Doxygen](#) for documentation
- **[PageRank algorithm implementation](#) :**
 - Scraped Wikipedia articles with [scrapy](#)
 - Converted articles to vectors with [gensim](#)
 - Implemented pagerank algorithm on top of above article vectors
- **[A web application for database of users](#) :**
 - Implemented a simple CRUD client-server web application in Java
 - Used [Vaadin](#) framework for a client side
 - Used javax.persistence for ORM
 - Used javax.ws.rs for RESTful functionality

CERTIFICATES

- Neural Networks and Deep Learning from Coursera [QCM53CMG3S5L](#)
- Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization from Coursera [Y2GWEKDP7S2Y](#)
- Structuring Machine Learning Projects from Coursera [AQBTC2FUBEA4](#)

PROGRAMMING SKILLS

- **Languages:** C/C++17, Python, Java
- **Technologies:** Spring, WebFlux, Tensorflow, PyTorch, Scikit-Learn, tsfresh, tslearn, pandas, numpy, boost, git, Jira, Ubuntu

BLOG POSTS

- How to Solve Time-Series Task for ML Internship with tsfresh? ([Part 1](#))
- Measure Attention Span ([Link](#))