

# Vojtěch Cahlík - Curriculum Vitae

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## PERSONAL DETAILS

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## EDUCATION

### Czech Technical University in Prague

*Ph.D. in Informatics*, Faculty of Information Technology (ongoing)  
*Master's degree in Informatics, with distinction*, Faculty of Information Technology (June 2022)  
*Bachelor's degree in Informatics*, Faculty of Information Technology (February 2020)

## STUDY ACTIVITIES

**prg.ai Minor**, Prague **2021 – 2022**

*Study program focused on artificial intelligence, organized jointly by the Charles University and the Czech Technical University in Prague*

**Research Summer 2021 at FIT CTU in Prague** **2021 – 2022**

*Program for student scientific research at the Faculty of Information Technology, Czech Technical University in Prague*

## PROFESSIONAL EXPERIENCE

**Freelance Machine Learning Engineer**, self-employed **Jan 2022 – now**

*Projects for LearnerOn, AI Detem, and ALTEC International*

**Machine Learning Engineer**, Ernst & Young, Prague **Mar 2020 – Aug 2021**

*Work on various data-related projects, e.g. machine learning pipelines for customer retention prediction, a human resources planning application, and a healthcare information system*

**Data Scientist Internship**, Datamole, Prague **Jun 2018 – Nov 2018**

*Gathering, preprocessing, and analysis of data from automated agricultural farms*

**Junior C++ Developer**, AEVI CZ, Prague **Sep 2016 – Aug 2017**

*Development of an embedded application for EFTPOS payment terminals*

## PUBLICATIONS

Cahlik, V., Kordik, P. & Cepek, M. (2022): "Adapting the Size of Artificial Neural Networks Using Dynamic Auto-Sizing." In: *2022 IEEE 17th International Conference on Computer Sciences and Information Technologies (CSIT)*, pp. 592-596, IEEE.

Cahlik, V. & Surynek, P. (2021): "Near Optimal Solving of the  $(N^2-1)$ -puzzle Using Heuristics Based on Artificial Neural Networks." In: *Computational Intelligence. IJCCI 2019. Studies in Computational Intelligence, vol 922.*, pp. 291-312, Springer, Cham.

Cahlik, V. & Surynek, P. (2019): "On the Design of a Heuristic based on Artificial Neural Networks for the Near Optimal Solving of the  $(N^2-1)$ -puzzle." In: *Proceedings of the 11th International Joint Conference on Computational Intelligence (IJCCI 2019)*, pp. 473-478, Vienna, Austria, SciTe Press.

WORK  
IN PROGRESS

“Deep Learning Methods for Style Imitation and Author Verification: A Survey”, with Kordik, P.  
“StyleNet: Large-scale Textual Dataset for Stylometry-related Tasks”, with Kordik, P.

AWARDS &  
CERTIFICATES

FIT CTU Dean’s Award (2020)  
IELTS Academic English language test score 8.5/C2 (2018)

RESEARCH  
INTERESTS

Machine learning, deep learning, natural language processing, reinforcement learning, multi-task learning, AutoML

TECHNOLOGICAL  
SKILLS

Advanced programming skills (Python, C++, Java, SQL)  
Good knowledge of Python data science and machine learning libraries (TensorFlow, scikit-learn, NumPy, Pandas, Matplotlib)  
Familiarity with information retrieval and data engineering technologies (Elasticsearch, Apache Airflow, SQL)  
Everyday experience in Linux software development (Bash/Zsh, Git, SVN)  
Familiarity with web development (Django, Flask, GraphQL, JavaScript, jQuery, Bootstrap, SASS)  
Experience with cloud services (AWS, Azure), blockchain programming (Solidity), and Android development