

Hynek Kydlíček

SOFTWARE AND DATA ENGINEER

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Education

FIT ČVUT (Faculty of Information Technology, CTU in Prague)

Prague, Czechia

BC. IN COMPUTER SCIENCE (UNFINISHED)

2019 - 2020

- I decided to transfer to MFF UK, due to lack of depth in CS theory and Maths.

MFF UK (Charles University, Faculty of Mathematics and Physics)

Prague, Czechia

BC. IN COMPUTER SCIENCE (A.I. MINOR)

2020 - 2023

- Bachelor Thesis - Implicit Information Extraction from News, I created the biggest Czech News structured dataset (1.6M+) and trained NLP models using SoTA Czech Transformers. Submitted at TSD-2023.
- During my studies I spent half a year as an exchange student in Umeå University.
- Thanks to the inter-university agreement, I attended several courses at FIT and FEL CTU.

Prg.ai Minor

Prague, Czechia

A.I. MINOR

2022 - 2023

- Successfully completed the required subjects and many more in just a year.

Skills

DevOps Docker, Github Actions

Back-end Nest.js, Express, ASP.NET Core, Django, REST API

Front-end Next.js, React, Blazor, HTML5, Tailwind

Machine Learning Pytorch 2.0 + Lightning, Tensorflow 2.0, HuggingFace, Scikit-learn

Data Engineering AWS (Redshift, Athena, Amplify, S3, EC2), Apache Hadoop + Spark, Apache Artemis

Programming Languages Typescript, Python, C#, Haskell, SQL

Other Node.js, LaTeX

Languages Czech, English

Work Experience

Edulastic

California, USA (Remote)

BACKEND DEVELOPER

Jun. 2019 - Jul. 2021

- Creation of reference solutions for programming assessments.
- Built a maintained Math evaluation engine using python + Antlr4 serving thousands of students.
- Created a REST API, for engine access using flask.

Freelance

Prague, Czechia

SOFTWARE FREELANCER

Jul. 2021 - Mar. 2022

- Pipeline for Compound data extraction of thousands entries from The Graph.
- Template Image Generator for NFT Project.

Honors & Awards

2023 **Winner**, Prague AI Hackaton

Prague, Czechia

2018 **Finalist**, Czech High School Cyber Security Competition

Prague, Czechia

2017 **Finalist**, Czech High School Cyber Security Competition

Brno, Czechia

Projects

CmonCrawl

PYTHON, AWS

 Github

- Utility for interaction and extraction from Common Crawl Index.
- Built with modularity and parallelism in mind.

CZE-NEC

PYTHON, ARTEMIS, SPARK, HF DATASETS

 [Github](#)

- The biggest and most complete dataset in Czech, containing over 1.6+ well filtered Czech News Articles with various metadata.
- Extracted using CmonCrawl, run distributed with Artemis queue on 30 nodes.

Translate IT

REACT, AZURE TTS

 [Github](#)

- Chrome extension for intuitive translation and TTS.

Washing Manager

ASP.NET CORE, BLAZOR

 [Github](#)

- Full-stack application for Washing Machine management, borrows and reservations.
- Automatically applies penalties/prolong borrows if over borrow using service worker.
- Admin UI is created on fly based on model definitions.
- Internalization support with time and language.