

MIKULÁŠ POUL

Software Engineer and Data Scientist

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EXPERIENCE

Software developer

Xelix

📅 October 2019 – Ongoing 📍 London & Remote

Full-time. Developing a new version of the Xelix's core product in a small team using Python, Django and DRF. Continuously working on new features and improvements, including a migration to newer Pythons. Rewriting and optimising the file processing using AWS Lambda functions, which since deployment processed thousands of files and millions of invoices. Writing tests for everything while making sure they run fast and don't interfere in the process. Introduced enforced coding style and dependency management to the projects early on to decrease friction while developing in a team. Involved in the deployment of services to AWS with Terraform. Sometimes writing React code on the frontend side of things.

Full-stack developer

SparkTECH s.r.o.

📅 May 2014 – September 2019 📍 Prague & Remote

Part-time. Developing commissioned and in-house systems in Django and AngularJS. Gained experience with building new systems and maintaining older ones, reviewing code and being the owner of projects. In later years involved with the DevOps, pioneering CI, handling automatic deployments and loadbalancing using GitLab CI, AWS and custom-made tools.
Part-time. Supported by Red Hat to work on my bachelor's thesis to help the Czech Python community. The website nauce.python.cz, enhanced by my thesis focuses on materials for teaching or learning Python.

EDUCATION

MSc Web Science and Big Data Analytics

University College London

📅 2018 – 2019 📍 London

A data science degree with a focus on the web and related concepts and technologies. Core modules focused on the structure of the web and retrieving information from it, elective modules focused on data analytics and machine learning, including neural networks. Graduated with distinction. My thesis focused on speeding up the calculation of the average path length in large complex graphs, both the calculation of the exact value and an approximation of the value. Written in C++ and Python.

Bc Informatics

Faculty of Information Technology, Czech Technical University in Prague

📅 2015 – 2018 📍 Prague

A general introduction to computer science, with a later specialisation in Web and Software Engineering, which included technologies used on the web, Big Data databases, searching in web and multimedia, information retrieval etc. Graduated with distinction and was awarded the Dean's Award for an excellent thesis.
My thesis focused on running unknown Python scripts securely in a separate environment, primarily using Docker. The tool was then used with an existing project for building content using Git repositories.

STRENGTHS & SKILLS

Python Django Pytest Pandas
DRF Flask Numpy

JavaScript HTML CSS React
CoffeeScript AngularJS Stylus Sass

C C++ Bash TeX PHP SQL

Git Docker AWS Terraform Sentry
NGINX GitLab CI Travis CI Jenkins
PostgreSQL AWS Lambda

Automated Testing Code review
Continuous Integration & Deployment

LANGUAGES

Czech ●●●●●

English ●●●●●

German ●●●●●

PERSONAL PROJECTS

modbus2tcp-reader

📅 2018 – 2020

🏠 mikulaspoul/modbus2tcp-reader

A small project for reading and storing data from electricity meters. Originally for my father's school, ended up being deployed to analyse consumption of several buildings.

BetterSubBox

📅 2014 – 2019

🏠 mikulaspoul/BetterSubBox

A discontinued tool for YouTube power-users, extending the YouTube subscriptions with extra functionality, originally my graduation project in high school. Written in Python and CoffeeScript, backend in Django, frontend in Angular. Involved work with YouTube's API, asynchronous actions with celery, and optimising cache for performance.

Arca

📅 2018 – 2019

🏠 mikicz/arca

Additional development of the tool Arca which was the principal part of my bachelor's thesis.