

MIKULÁŠ POUL

Software Engineer

Czech  mikulaspoul@gmail.com
 mikulas-poul-920b6a59  mikicz

London, United Kingdom  mikulaspoul  www.mikulaspoul.cz
 Czech, English



EXPERIENCE

Career at Xelix


 London & Remote

Lead Data Engineer

 October 2022 - Ongoing

In addition to all the responsibilities of my previous role started leading a small team whose responsibility is to handle the pipeline of data coming to Xelix, importing data from customer's systems and running all our processing and analysis on it. This includes writing & orchestrating the pipeline, implementing algorithms and ML models, and performing the technical part of customer setup. Line managing two team members directly, and mentoring other team members. Communicating often with the product, customer success and implementation teams. As a senior member of the tech team I am also involved in hiring and strategic planning. Later in this role started focusing heavily on developer experience, making improvements to the codebase, processes, infrastructure, and testing.

Software developer

 October 2019 - September 2022

Developing the backend of the Xelix platform using Django. Wrote new features, refactored or rewrote large parts of the codebase, scaling from a small number of customers to a much larger number of much larger customers. Introduced coding style checks, and better dependency management early on. Focused a lot on testing, writing custom tools, owning them running fast & reliably. Dealing with DevOps as well, using Terraform, and AWS. Implemented data science team's algorithms and ML models.

Full-stack developer

Eluvia (formerly SparkTECH)

 May 2014 - September 2019

 Prague & Remote

Part-time. Developing websites in Django and AngularJS. Gained experience with building new systems and maintaining old ones, reviewing code, being a project owner. Later got involved with DevOps, pioneering CI, handling continuous deployment and loadbalancing using GitLab CI and AWS.

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. Focused on data retrieval, 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

Computer science degree with later specialisation in Web and Software Engineering. Graduated with distinction. My *thesis* focused on running unknown Python code securely, using Docker. Integrated the tool into a project for building content using Git repositories. My thesis was awarded the Dean's Award for an excellent thesis.

STRENGTHS & SKILLS

Python Django Pytest Pandas

DRF Flask Numpy Cython

SQL C++ JavaScript HTML CSS

C Bash \LaTeX

Git Jenkins GitHub Actions GitLab CI

Code review Continuous Deployment

Docker Terraform Sentry NGINX

PostgreSQL Packer Prefect

EC2 ECS RDS AWS Lambda S3

IAM AWS Step Functions SQS SNS

PROJECTS

pytest-unused-fixtures 2023

 mikicz/pytest-unused-fixtures

Pytest plugin for identifying unused fixtures.

pytest-xdist-worker-stats 2023

 mikicz/pytest-xdist-worker-stats

Pytest plugin for collecting statistics about xdist workers.

P4A Portal 2022 - 2023

 mikicz/p4a-portal

Calculating statistics for the Project For Awesome charity livestream.

modbus2tcp-reader 2018 - 2021

 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, originally my high school graduation project. Backend in Django and AngularJS (with CoffeeScript).

Arca 2018 - 2019

 pyvec/arca

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