MIKULÁŠ POUL

Software Engineer

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EXPERIENCE

Career at Xelix   London & Remote

Staff Engineer

August 2023 – Ongoing

Lead Data Engineer

October 2022 – July 2023

In addition to all the responsibilities of my previous role lead a small team with responsibility over the pipeline of data coming to Xelix, importing data from customer systems and running processing and analysis on it. This included writing & orchestrating the pipeline, implementing algorithms and ML models, and performing the technical part of customer setup. Line managed two team members directly, and mentoring other team members. Communicated often with the product, customer success and implementation teams. As a senior member of the tech team I was 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 features, refactored or rewrote large parts of the codebase, scaling from a few customers to many more with much more data. Introduced linting, and better dependency management early on. Focused on testing, writing custom tools, owning them running fast & reliably. Did with DevOps as well, using Terraform in 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, data retrieval and machine learning including neural networks. Graduated with distinction. My *thesis* exlored speeding up the calculation of the average path length in large graphs, both the the exact value and approximations. 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 – 2025

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.