



Filip Sedlák

DevOps architect with management experience

Positions

- Nov 2020 – present **Twisto**, *Internal Engineering Manager*, Ergonomic tools and services for fast moving startup
DEVOPS, QA, OPS, BACKOFFICE, SECURITY
I transferred the DevOps team to a new lead and focused on improving the delivery cycle for the internal tooling. Via agile delivery methods, I've built two new teams that immediately started to save manual effort. That in turn reduced the pressure to hire into support roles while active users and customer transactions volume increased steadily. Now, I'm looking to expand the teams to cover other internal areas.
- Jun 2017 – **Twisto**, *Head of DevOps*, Improving reliability and scalability
Oct 2020 AWS, ANSIBLE, POSTGRESQL, DOCKER, ELASTICSEARCH, PYTHON
In order for Twisto.cz to successfully expand to new markets, it needs fault tolerant and scalable platform. I helped Twisto to improve developers efficiency by building a set of internal tools and platforms that allow developers to deploy to production many times per day while maintaining the QA process and security. I organized the move to Kubernetes and did the first steps towards decentralized development via microservices and API contracts.
- Dec 2015 – **Neuron Soundware**, *COO and Co-founder*, Predictive analytics startup
May 2017 PYTHON, ARTIFICIAL INTELLIGENCE, MICROSOFT AZURE, ANSIBLE, DOCKER, IOT
We founded Neuron Soundware to help our clients improve uptime of their machines with predictive analytics. To achieve this goal, I was responsible for the development and operation of our IoT platform and operation of resources necessary for our development.
- Jan 2015 – **MSD IT Global Innovation Center**, *Bioinformatics Team Lead*
Feb 2016 HPC, PYTHON, SCALA, JAVA, KAFKA, RUST, NEO4J
I built and operated an internal application that helped biologists research personalized medicine solutions. The IT innovation hub was founded to promote agile approach to IT within Merck. Using DevOps approach made it possible to shorten iteration cycles to one or two weeks.
- 2012 – 2015 **ChemAxon**, *Developer, then Product Owner*, Cheminformatics Software for Big Pharma
JAVA, ORACLE, MYSQL
In ChemAxon, I was first part of the team delivering a chemical reporting and data entry platform for pharmaceutical companies. This work required knowledge of the database systems and sometimes debugging of issues in the customers' systems. Later, I became a Product Owner of a part of a new product for the same set of customers.
- 2006 – 2009 **Eficia**, *Developer and Systems Administrator*, part-time
LINUX, WINDOWS, PHP, MYSQL
Starting the last year of high school and continuing through university, I helped the private call centre Eficia to develop and maintain the internal calls tracking applications used by all agents. This work saved CZK millions in licensing fees for off the shelf software. Moreover, it allowed any changes to be ready in matter of days.

Interesting projects

Oct 2020 – **Undisclosed**, High Frequency Trading Database

Dec 2020 BITCOIN, HFT, TIMESCALEDDB

For a cryptocurrency trading company, I chose and tested the database technology able to withstand the load generated by transactions from many crypto markets.

Jul 2019 – Jul **Monitora Media**, Productivity tools

2020 AWS, POSTGRESQL, SOLR

I've built several productivity tools and cloud services. This allowed Monitora Media to improve reliability, speed up development and lower operational costs.

Jan 2019 – **Monitora Media**, Migration from MySQL to Postgres

Jun 2019 POSTGRESQL, MYSQL, AWS DMS

Monitora Media records many online and offline news sources to make them searchable. They decided to change the technology of their main database from MySQL to Postgres. I helped them to migrate a large database to different technology without incurring downtime.

Apr 2017 – **Geneea Analytics**, Improving robustness and security

Dec 2017 RABBITMQ, AWS, ANSIBLE, DOCKER, PYTHON, JAVA

Geneea Analytics processes large amounts of text in real time. I tested various approaches to splitting the architecture into individually deployable units and implemented a prototype integrating Java and Python services.

2015 **Geneea Analytics**, Bootstrapping a New Product

JAVA, SPRING, AWS, 3SCALE

I designed and implemented the basis of the public API for a text analytics startup, reusing existing services where possible. This helped Geneea Analytics with short time to market and lower costs than other solutions they were considering at the time.

Oct 2010 – **Institute of Molecular Genetics**

Jul 2012 PYTHON, R, LINUX, JAVA

I built and deployed visualization tools for biology researchers.

2008 **Oliwier Finance**, Custom CRM software for financial services company

WINDOWS, MS ACCESS

I built a quick and cheap customer management system for a starting company.

Education

2007–2012 **Master**, *Institute of Chemical Technology*

PRAGUE, CZECH REPUBLIC

Chemical informatics

Teaching

2019 – 2020 Own courses on programming and Data Science with my wife, under the brand Sedlakovi.org

2016 – 2018 University courses on programming, teaching together with my wife

2015, 2016 Organized Software for Scientists workshop

Languages

Czech **Mother tongue**

English **Full professional proficiency**

French **Advanced**

Russian **Conversational**