Szabolcs Hodossy

Education

Master degree

2015–2018	**Mathematics MSc.**, *Budapest University of Technology and Economics*, Budapest.
Thesis	Analysis of Machine Learning Algorithms
Supervisor	Professor Gaspar, Csaba

Evaluated performance of the most common ML algorithms over binary classification problems.

Bachelor degree

2009–2015	**Physics BSc.**, *Budapest University of Technology and Economics*, Budapest.
Thesis	The noise as signal
Supervisor	Professor Dr. Csonka, Szabolcs

Created a highly sensitive measurement system, which was calibrated by measuring thermal noise of resistors at cryogenic temperatures.

Experience

Vocational

2019–Present	**Data Engineer**, *Continental AG*, Budapest.

Developing a data catalogization web app, specified in Deep Learning and Computer Vision. The tool makes it easy to find properly labeled data for specific use cases, visualizes images with the ground thruth and ensures that regulatory requirements are fulfilled. I have built up the whole ecosystem for this tool, defining the technology stack, building up the CI/CD Pipeline and the deployment on a Kubernetes cluster. I am also responsible for the full stack development and the monitoring/operations of the tool.

Technologies: Python (Django, Django REST Framework, OpenCV), Angular, PostgreSQL, Docker, Kubernetes, Kustomize, ElasticSearch, Kibana, AWS EKS, GitHub

2017–2019	**Lead Data Analyst**, *Nokia Networks*, Budapest.

Developing BI dashboard for the senior management to report R&D performance based on data mainly from Atlassian's Jira. I was responsible to build up and maintain the whole ecosystem, starting with the ETL pipeline, through the database up to the final report. I lead a small team of interns, as their Product Owner and Senior engineer, to implement a data entry website, an ETL pipeline in Python and a Power BI report. I was working at the time with SAFe methodology, and our goal was to ease SAFe adoption in Nokia Mobile Networks R&D (50k engineers).

Here I managed to learn a lot more about software testing and practice my soft skills, while deepen my knowlegde about DevOps practices and Cloud development.

Technologies: Python (Django, Django REST Framework, pandas, SQLAlchemy), PostgreSQL, GitLab CI/CD, OpenStack, Jira, Power BI

2014–2017 **Software Engineer**, *Nokia Networks*, Budapest.

Developing SIP interface of 3G Core MSS. I was included in the maintenace and further development of a roughly 2 million line codebase, which really defined my view on code quality and maintainability on the long run. I was working at the time with a semi-waterfall methodology, starting to adopt Agile and Cloud technologies. I picked up a lot about enterprise software development practises, like version handling and code reviews, and quality assurance with all levels of software testing: unit, module, functional and end-to-end.

Technologies: TNSDL, C, Python, Perl

2013–2014 **Intern**, *Nokia Networks*, Budapest.
Developing Java based web applications to make debugging Telco networks easier.

2010–2014 **Lab trainee**, *BUTE Faculty of Science Nanophysics Lab*, Budapest.
Developing measurement automation and making thermal noise measurements

Open Source Contributions

2020–Present **Django Natural Language Filter**, *Filtering engine for the Django web framework*.

2019–Present **Pandas Extras**, *Small extensions for the Pandas Python library*.

Teaching

2013 **Analysis for architecture students**, *Budapest University of Technology and Economics*, Budapest.

2013 **Introduction to data collection and analysis**, *Budapest University of Technology and Economics*, Budapest.

2012 **Analysis for architecture students**, *Budapest University of Technology and Economics*, Budapest.

Miscellaneous

2013 **Intern**, *University of Regensburg*, Regensburg.
Summer internship, taking criogenic experiments

Languages

English Fluent, advanced certificate of type C
German Basic

Skills

Computing

Advanced	Python (Django, DRF, Pandas), Angular, C, Git, Data Mining, Data Visualization
Intermediate	Kubernetes, Docker, HTML5, CSS, Javascript (Typescript), Linux

Professional

General	Adaptive, Fast-learner, Pragmatic, Analytic
Agile	Scrum, Kanban, DevOps, SAFe

Interests

Professional

Finance	Trading algorithms, Portfolio Management and Optimalization
Big Data	Various applications of machine learning
Programming	Small web apps, Open Source contributions

Personal

Carpentry	Making my own furniture