



Szabolcs Hodossy

Experience

Vocational

- 2024–Present **Senior Full Stack Software Engineer**, *Deutsche Telekom IT Solutions*, Budapest
Building a remote monitoring system for 2/4-stroke engines, where SMEs can proactively monitor hundreds of alerts and data items to schedule maintenance and prevent critical failures. The system is built up from multiple multilingual applications, handling thousands of users, and even more connected engines. My responsibilities were designing and adding new advanced analytical features while also suggesting and implementing architectural changes in the codebase.
Technologies: Typescript, Angular, Angular Material, Nx, NgRX, Node.js, Nest.js, HTML, SCSS, Storybook, Docker, Kubernetes, Helm, GitLab, MongoDB
- 2021–2024 **Senior Frontend Software Engineer**, *Commsignia*, Budapest
Developing a management interface for Road Side Units (that facilitate the communication between road operators and V2X enabled cars), that handles firmware upgrades, broadcasted messages and offers troubleshooting capabilities. It offers a plugin, also developed by our team, to draw the road information and intersection topology related messages according to the latest standards. Moreover I had the opportunity to develop a fully offline Progressive Web App for the On-Board Units, (that integrates the V2X communication protocol into a car), to help the driver of snowplows with additional information about their surrounding and traffic situation.
Technologies: Typescript, Angular, Angular Material, HTML, SCSS, Bootstrap, Storybook, WASM, Progressive Web App, Web Worker, Docker, Kubernetes, GitLab, Maplibre, Google Maps
- 2019–2021 **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 truth 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 a 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](#)

2020–2021 **Django Natural Language Filter**, *Filtering engine for the Django web framework*

2019–2020 **Pandas Extras**, *Small extensions for the Pandas Python library*

[Teaching](#)

2012–2013 **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

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.

Languages

English Fluent, advanced certificate of type C
German Basic

Skills

Computing

Advanced Javascript (Typescript, Angular, NX, RxJS, NgRX), Node.js, Python (Django, DRF, Pandas), HTML5, CSS, Kubernetes, C, Git
Intermediate Docker, Linux

Professional

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

Interests

Professional

Finance Personal Portfolio Management and Optimization
Programming Small web apps, Open Source contributions

Personal

Carpentry Making my own furniture