Mattackerstrasse, 1 Wetzikon ZH 8620 Switzerland

Ing. Marek Marušic

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Languages and Technologies

- Proficient: C#; Python; SQL; Docker; Azure Cloud; Git
- Prior Experience: Java; TypeScript; C++; Kubernetes; Terraform; Keras; OpenMPI
- Natural Languages: English (Fluent), Slovak (Mothertongue), Nationality: Slovak (EU/EFTA)

Employment

Software Engineer

Loepfe Brothers (CH)

Oct 2019 – Present

IoT Solution for yarn sensors – C#.NET, Azure IoT

- Created services to process sensor run-time data on edge servers and send it to the cloud for further analysis.
- Support new colleagues with the understanding of our projects.

Cloud infrastructure – Terraform, Kubernetes, Azure, Docker, Helm

- Designed and implemented pipelines to deploy our infrastructure and services to the Cloud.
- Reduced time to set up CI/CD for new services by 50%.
- Help, advise, and educate team members on CI/CD topics.
- Improved and designed release processes for our projects to avoid regressions and increase release speed.

Production Data Collector – C#.NET, Angular, MongoDB

• Increased traceability of produced devices by implementing automatic upload of the system information.

Data analysis – Python, Bokeh

• Created a simulation of algorithms to compare their effectiveness in handling decreasing sensor accuracy.

Associate Software Engineer

Red Hat (CZ)

Jan 2018 - Sep 2019

- Optimized performance by 30% and memory use by 50% of an existing NLP model for support cases classification and prepared a Docker image with GPU support for easier deployment.
- Optimized performance and JVM stack usage of a query parameter processing in RESTEasy framework.
- Built features to obtain SSL certificates from Let's Encrypt and improved the user experience of CLI in the JBoss EAP.
- Provided technical guidance and mentorship to new trainees in the team.

QA and SWE Internships

Red Hat (CZ)

Apr 2014 - Dec 2017

• Developed various features for internal tools using Java and automated tests for security components (OpenSSH, Firewall, Network) in Red Hat Enterprise Linux with Bash and Python.

Education

Brno (CZ)

Brno University of Technology

2013 - 2018

- Master's degree in Bioinformatics and biocomputing, Faculty of Information Technology, June 2018.
- Bachelor's degree in Information Technology, Faculty of Information Technology, June 2016.

Technical Experience

Projects

- Automation of MITM attack for SSL/TLS decryption (2016). Tool for setup and startup of SSL/TLS interception. An article about it was published and presented at the Excel@FIT conference. Python, C
- Customer support case analysis with deep neural networks Updated, improved and compared existing NLP models as part of my Master's thesis. Python, Keras, NLP
- **CPU heat map simulation** (2017). Parallel simulation of a CPU heat map on a Czech supercomputer scaled on multiple CPUs across the cluster. The solution was the fastest in class. C++, OpenMPI
- **Depth map calculation from stereo image** (2018). With a teammate, we implemented various local and global methods to calculate depth maps from stereo images. Python, OpenCV
- Mobile app to track and discuss goals with coach (2017). As a team of 3, we created a mobile app for people to help achieve their goals. Android