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Nationality and Languages

- Nationality: Slovak (EU/EFTA)
- Languages: English (Fluent), Slovak (Mothertongue)

Skills

- Proficient: C#; Python; SQL; Docker; Azure Cloud; Git
- Prior Experience: Java; Linux; TypeScript; Kubernetes; Terraform; Keras; OpenMPI

Employment

Software Engineer   Loepfe Brothers (Switzerland)   Oct 2019 – Present

- Implemented features in **C#** (settings, disaster recovery, installation, serial port selection, communication) used daily by more than 25% of the textile winding machines in the world.
- Created services in **C#** to process telemetry data with **Azure IoT** and send it to the **Azure cloud** for further analysis with **PowerBI**.
- Designed and implemented **Azure pipelines** to deploy our infrastructure as code with **Terraform** and services to **Kubernetes**.
- Became the team's expert for **CI/CD** topics.
- Supported new colleagues with the understanding of our existing projects by organizing 10 knowledge-sharing sessions and answering questions daily.
- Improved code quality by driving the definition of Coding Guidelines and integrating it into **CI** pipelines.
- Decreased regressions in new releases by driving the redesign of the existing release processes.
- Increased traceability of produced devices by creating a system with **.Net REST** API, **MongoDB** and **Angular**.

Associate Software Engineer   Red Hat (Czechia)   Jan 2018 – Sep 2019

- Contributed more than 60 PRs to various **Open-source** projects such as **Wildfly, Quarkus.io, RESTEasy**.
- Optimized data pre-processing time by 30% and memory use by more than 50% of our NLP models and prepared a **Docker** image with GPU support so that they can be developed and run on developer's machines.
- Decreased query parameter processing time in RESTEasy framework by 1300x by debugging and fixing performance issues.
- Built features to obtain **SSL** certificates from **Let's Encrypt** and improved the user experience of CLI in the **JBoss EAP**.

Intern Software Engineer   Red Hat (Czechia)   Apr 2017 – Dec 2017

- Developed features in API for issue tracking from multiple issue trackers using **Java**. 20 hours per week.

Intern Software QA   Red Hat (Czechia)   Aug 2014 – Mar 2017

- Development of various automated tests for security components (OpenSSH, Firewall, Network) of Red Hat Enterprise Linux in **Bash** and **Python**. 20 hours per week.

Education

Brno (Czechia)   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 Projects

- **Customer support case analysis with deep neural networks** (2018). Updated, improved and compared existing NLP models as part of my Master's thesis. Python, Keras, NLP
- **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