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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**

- Became the team's expert for CI/CD topics and **MS Azure pipelines**.
- Streamlined pipeline setup for new projects by standardizing the release process and creating templates.
- Decreased regressions in new releases of 5 projects by driving the redesign of the existing release processes and implementing trunk-based development.
- Improved code quality by driving the definition of Coding Guidelines and integrating it into CI pipelines.
- Mastered the **Azure IoT** platform and implemented an end-to-end solution in 5 months using the **C#**, **IoT Edge, CosmosDB, and PowerBi**, which is now deployed at 2 customers for evaluation.
- Saved numerous trips to the field by implementing machine simulators that can run in a **Docker** container.
- Improved maintainability by decoupling the new **.NET** IoT client app from the legacy app and implementing an **IPC** between them.
- Created dev, qa, and prod environments for 3 projects by setting up **Kubernetes** clusters with infrastructure as code using **Terraform**.
- Introduced **Fluent Bit** for logging and metrics forwarding to **Elasticsearch**.
- Reduced our costs for **Elasticsearch** by decreasing the hot storage and moving older data to the cold storage.
- Supported new colleagues with the understanding of our existing projects by organizing 10 knowledge-sharing sessions and providing technical advice daily.
- Taught about advanced details of our software products at 2 seminars for our customer support.
- Increased traceability of produced devices by creating a system with **OpenAPI**, **MongoDB**, and **Angular**.
- Implemented 90 features in **C#** used daily on more than 25000 textile winding machines across the world.

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**