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Languages and Technologies

- Proficient: C#.NET; Python; SQL; Docker; Kubernetes; Azure Cloud; Git
- Prior Experience: Java; Angular; C++; OpenMPI; Terraform; Helm; Bash; Linux
- Natural Languages: English (Fluent), Slovak (Mothertongue)

Employment

Software Engineer	**Loepfe Brothers**	**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.
- Mentored new trainees in the team.

Software Engineer, Intern	**Red Hat CZ**	**Apr 2017 – Dec 2017**

- Developed various features for internal tools using Java and Java EE technologies to improve code reviews and PR quality.

Software QA, Intern	**Red Hat CZ**	**Aug 2014 – Mar 2017**

- Development of various automated tests for security components (OpenSSH, Firewall, Network) in Red Hat Enterprise Linux in 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 models 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 performance was one of the best in class. C++, OpenMPI

- **Collaborative whiteboard** (2015). Whiteboard where multiple users can view and simultaneously draw with each person's edits synchronized. Javascript, WebSockets
- **Workout buddy** (WIP). Prepare your workout plan before a workout. While working out you can track reps, sets, and time the breaks. C#, Angular