PHILIPP GYSEL

RESEARCHER AND SOFTWARE DEVELOPER

Dedicated researcher and software developer with 6+ years of industry experience. Proven contributions in both corporate and academic research in the areas of machine learning, cyber security, and efficient edge computing.

PERSONAL INFORMATION

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scholar.google.com/citations?user=P1fueTAAAAAJ

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Bern, Switzerland

WORK EXPERIENCE

08/2022 - now
Switzerland

Researcher at Acronis International GmbH

Develop behavior-based malware detection using machine learning

- Responsible for the complete ML process: data gathering, feature extraction, machine learning model implementation.
- Co-author of 5 submitted patents and 1 conference paper.
- Skills: literature review, help advice ML projects, cloud data pipelines, sequence models like transformers, Python, TensorFlow.

06/2020 – 11/2021 Switzerland

Software Engineer at Intersys AG

Development and maintenance of enterprise applications

• Skills: unsupervised ML models for time series classification, Java + SpringBoot, Linux, draft technical offers.

02/2018 – 01/2020 Switzerland

Software Engineer at Elca Informatique SA

Development of new enterprise applications

• Skills: Cloud deployments with Kubernetes / OpenShift, software architecture, code reviews, CI/CD pipelines.

09/2016 – 09/2017 San Diego, CA

Software Engineer at Qualcomm Research

Neural network compression for inference on Qualcomm Snapdragon SoC

Successful Quantization of the largest CNNs to 8-bit fixed point at negligible accuracy loss.

EDUCATION

09/2014 – 06/2016 Davis, CA

MSc in Electrical and Computer Engineering at University of California, Davis

Research in neural network compression and efficient inference on edge devices

- GPA: 4.0 / 4.0.
- Master thesis: Ristretto, an open-source tool for neural network quantization.

09/2009 – 08/2012 Switzerland

BSc in Electrical Engineering at Bern University of Applied Sciences

Finish in top 8% of class

PUBLICATIONS, COURSES, VOLUNTEERING WORK

2021 – 2022 Switzerland	CAS Certificate in Data Science Continuing education at University FHNW with focus on data analysis and ML.
2020 – 2021 Switzerland	Volunteering at Powercoders Help refugees to gain software developer skills and find a software engineering job.
2015 – 2016 Davis, CA	Open-source project Ristretto Quantization of deep neural networks. This research was cited by companies including Qualcomm, Intel, Samsung, and Microsoft.