Viktor Gsteiger

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EDUCATION

ETH Zürich — Zürich, Switzerland
M.Sc. in Computer Science — *Sep 2021 − April 2024 (Expected)*
Major Degree in Data Management Systems

University of Basel — Basel, Switzerland
B.Sc. in Computer Science — *Sep 2018 − July 2021*

RESEARCH EXPERIENCE

ETH Zürich — Zürich, Switzerland
Distributed Systems Laboratory — *Sep 2022 − Present*

- Currently working with Prof. Dr. Ana Klimovic on MODYN (paper *A Platform for Model Training on Dynamic Datasets* submitted to *EuroMLSys23*), a work-in-progress open-source platform that enables ML researchers and practitioners to explore a wide variety of training and data selection policies.
- Worked on systems architecture with regard to data storage and retrieval in the context of the research platform and supported other researchers in architectural decisions with regard to data storage and cloud utilisation.
- Implemented a data storage abstraction layer that enabled a multitude of storage formats and platforms as well as research into data retrieval and storage costs with regards to dynamic datasets.

Databases and Information Systems (DBSI) group — Basel, Switzerland
Undergraduate Research Assistant — *Jan 2021 − Sep 2021*

- Working with Prof. Dr. Heiko Schuldt on Multi-Modal Interactive Video Retrieval with Temporal Queries in the research system vitrivr.
- Contributing to vitrivr participating at the Video Browser Showdown (VBS) in 2021 by actively developing temporal querying algorithms for multimedia item retrieval. The results of this work were presented at the 10th Video Browser Showdown (VBS) in 2021.
- Developed a temporal query parser and optimiser for the vitrivr system that enables users to query multimedia items by time intervals as part of my Bachelor's Thesis.
- Contributed to papers: *Interactive video retrieval evaluation at a distance: comparing sixteen interactive video search systems in a remote setting at the 10th Video Browser Showdown*, *Multi-modal Interactive Video Retrieval with Temporal Queries*

WORK EXPERIENCE

Business Systems Integrations AG — Zürich, Switzerland
Software Engineering and DevOps Working Student — *Jan 2022 − Present*

- *DevOps Engineer* (Sep 2022 − Present): Responsible for designing, implementing, and maintaining complex infrastructure systems. This includes using technologies such as Kubernetes, Helm charts, Artifactory, GitLab, Ceph storage, S3, OpenShift, Docker, PostgreSQL, and Oracle databases.
- *Software Engineer* (Jan 2022 − Sep 2022): Responsible for developing in a code base of approximately 2 million lines of code using Java and the Scout framework with a custom business solution stack on top. Created and integrated REST APIs, ETL pipelines, and other solutions as part of the stack for a national car leasing provider.

Bank for International Settlements — Basel, Switzerland
Full-Stack Software Engineering Contractor — *Feb 2020 − Sep 2021*

- Partnership of the BIS and the University of Basel under the direct supervision of Prof. Dr. Heiko Schuldt.
- Responsible for contributing to a natural language processing project stack in a Linux/Python/PostgreSQL/Azure DevOps/Angular environment. This included the development and maintenance of information retrieval software in an international team setting.

SKILLS

Programming: C, C++, Java, Kotlin, Python, MATLAB, R, SQL, Go

Technologies: Git, TensorFlow, Apache Kafka, Docker, Kubernetes, PostgreSQL, HDFS, Spark, Unix

Languages: German (Native), English (Professional), French (Elementary)