Sabrina Kall
Software Engineer

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SUMMARY

Highly skilled software engineer with dual US-Swiss citizenship and experience working with many cultures. Specializes in designing and building highly scalable, asynchronous software for machine learning and the cloud. As a tech lead for one of the world's biggest financial regulation software providers, I led a team in the successful design, implementation and delivery of the company's next-generation AI compliance platform.

Github: https://github.com/sigma-libra
StackOverflow: https://stackoverflow.com/users/8788182/sigma1510

EXPERIENCE

Tech Lead   08/2021 - Present
IMTF

- Leads an agile team of developers, data scientists, and testers in the design and development of a machine-learning backed financial regulation platform for realtime screening of banking customer data and transactions. We use Docker, Kubernetes, Kafka and Elasticsearch in a microservice architecture with asynchronous communication to be highly scalable and fault tolerant.
- Serves as an architect for the integration of multiple products company-wide, including sunset legacy systems.
- Maintains, deploys to, and supports test, demo and production environments using automated pipelines for Cloud and playbooks for air-gapped on-premise servers.
- Trains teams to use the SCRUM framework.

Software Engineer   08/2020 - 08/2021
ti&m

Coded the backend for a cloud-based e-commerce platform with a microservice architecture, Elasticsearch database and asynchronous Kafka communication, and assisted in the design and supervision of deployments to AWS.

Security Researcher   02/2020 - 08/2020
SAP

Designed and implemented a python-based federated learning process to train a machine-learning model in the detection of leaked credentials (passwords, sensitive information, etc...), which became the topic of a paper published at the 7th International Conference on Information Systems Security and Privacy.

Coding Teaching Assistant   09/2018 - 01/2020
Swiss Federal Institute of Technology Lausanne [EPFL]

Taught C++ to first year Engineering students.

Student Researcher   02/2019 - 06/2019
Swiss Federal Institute of Technology Lausanne [EPFL]

Developed algorithms for the discovery of malicious nodes in the context of location-based "trust-but-verify" blockchain architectures, and implemented them in Go in order to benchmark them.

EDUCATION

Computer Science   2020
Swiss Federal Institute of Technology Lausanne (EPFL) - Master

- GPA: 5.5/6

Software Engineering   2018
Vienna University of Technology (TUW) - Bachelor (Erasmus exchange student)

Computer Science   2018
Swiss Federal Institute of Technology Lausanne (EPFL) - Bachelor

CERTIFICATES

Professional SCRUM Master I   01/2023 - Present

SKILLS

Architecture Design	Jupyter Notebook
API Design (REST, Async)	Pytorch
Database Design	Spark
End-to-End Testing	Hadoop
DevOps	Kafka
Product Integration	Flutter
Machine Learning	React
Kubernetes	Angular
Terraform	SQL (+ Postgres + MySQL)
Helm	MongoDB
Docker	DynamoDB
AWS	Elasticsearch
Java (+ Spring + Junit)	Linux
Kotlin	Git
Go	CI/CD Pipelines
C++	JIRA + Confluence
Javascript (+ HTML + CSS)	SCRUM
Python (+ Flask + Pandas)	

LANGUAGES

English	Native	French	Native
German	Native	Spanish	Fluent