

Sabrina Kall

Senior Software Engineer

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📍 USA

SUMMARY

Fullstack software engineer with dual US-Swiss citizenship and experience working with many cultures. Specializes in designing and building highly scalable, asynchronous software for AI 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-gen AI compliance platform.

EXPERIENCE

Senior Software Engineer

07/2023 - Present

[SewerAI ↗](#)

Fullstack engineer for the AI team at SewerAI, a start-up dedicated to modernizing sewer inspection and maintenance. Built and maintained the Python/React software tools and AWS/GCP/on-site infrastructure required for data labelers, data scientists and users to create and use the AI to quickly deliver value to our customers.

Project Portfolio

2015 - Present

[Github Repository ↗](#)

Tech Lead

08/2021 - 07/2023

[IMTF ↗](#)

- Led an agile team of developers, devops, data scientists, and testers in the design and development of an AI financial regulation platform for real-time screening of banking customer data and transactions, built using Kotlin and Kubernetes.
- Architected the integration of company products and Java monolith legacy systems into the new platform.
- Maintained the test, demo and production environments using automated pipelines for Cloud and playbooks for air-gapped on-prem servers.
- Trained teams to use the SCRUM framework.

Software Engineer

08/2020 - 08/2021

[ti&m ↗](#)

Coded the backend for a Kotlin-based Cloud-based microservice e-commerce platform on AWS as a forward-deployed consultant.

Security Researcher

02/2020 - 08/2020

[SAP ↗](#)

Designed and implemented a Python-based federated learning process to train a distributed 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 Golang in order to benchmark them.

EDUCATION

Master in Computer Science Swiss Federal Institute of Technology Lausanne (EPFL) <ul style="list-style-type: none">GPA: 5.5/6Specialization in Data Analytics and Decentralized Computing	2018 - 2020
Erasmus Bachelor in Software Engineering Vienna University of Technology (TUW) - Erasmus exchange student	2017 - 2018
Bachelor in Computer Science Swiss Federal Institute of Technology Lausanne (EPFL)	2015 - 2018

CERTIFICATES

Professional SCRUM Master I https://www.scrum.org	01/2023 - Present
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SKILLS

Reactjs	Architecture Design (microservice, client-server, layered,...)
Python (Flask, Pandas, Pytorch)	API Design (REST, GraphQL)
SQL (Postgres, MySQL)	Database Design
NoSQL (MongoDB , Clickhouse, DynamoDB,...)	Information Retrieval (Elasticsearch)
Java (Spring, Junit, Kotlin)	Data Processing (Spark, Hadoop)
Javascript/Typescript (HTML, CSS, TailwindCss)	Data Analytics
Cloud (AWS, GCP)	Testing (unit, integration, smoke tests)
SCRUM	Logging and Monitoring
Git (Github, Gitlab)	DevOps
Flutter	Product Integration
Containers (Docker, Kubernetes, Helm, Terraform)	Mobile development
Data Streaming (Kafka, Kinesis)	Machine Learning
Temporal	CI/CD Pipelines
Golang	JIRA + Confluence
C++	Linux
WordPress	Jupyter Notebook

LANGUAGES

English	Native	French	Native
German	Native	Spanish	Fluent