# Sinisa Louc

## Senior Software Engineer @ Spotify

- Working with software since 2010.
- ML/AI university background.
- Current professional interests:
  - Distributed systems
  - Data engineering
  - IT security, anti-fraud mechanisms

## Personal Info

**Email:**
sinisalouc@gmail.com

**LinkedIn:**
Sinisa Louc

**GitHub & StackOverflow:**
slouc

**Languages:**
- Croatian (native)
- English (full professional proficiency)
- German (elementary)
- Italian (elementary)

## Work Experience

### Senior Software Engineer
**Spotify | Berlin, Germany | Jan 2022 - Present**

- Lead backend & data engineer in the fraud prevention team
- Design and implementation of low-latency, high-throughput services and APIs
- Development and orchestration of large-scale data pipelines (batch & stream)
- Leading & coordinating cross-squad projects, member of the Tech Steering Group, mentoring junior engineers
- Java, Scala, GCP (Dataflow, BigQuery, Bigtable, Pub/Sub), Apache Beam, Docker, Kubernetes

### Software Engineer / Technical Designer
**MOIA | Berlin, Germany | Jan 2020 - Nov 2021**

- Designed and implemented the backend for the MOIA B2B platform: see https://business.moia.io
- Worked on an in-house discrete event simulation tool used by various internal teams for assessment of their optimisation algorithms.
- Scala, AWS (Kinesis, Lambda, RDS, Athena, SNS/SQS, Cloudformation), Docker. Kubernetes

### Software Engineer
**Spotcap Global | Berlin, Germany | Feb 2017 - Dec 2019**

- Developed a set of REST APIs used in production for Spotcap's fintech product (business loans for SMEs)
- Implemented algorithms for risk assessment and probability-of-default calculations
- Scala, AWS (S3, RDS), PostgreSQL

### Software Engineer
**Byte-Code S.p.A. | Milan, Italy | Sep 2015 - Jan 2017**

- As part of a two-person greenfield project, I designed and implemented a custom for two international clients. The tool was subsequently released as a standalone product: see https://www.contentchef.io
- Scala, Javascript (NodeJS), AWS (SNS/SQS), Apache Spark, MongoDB, Deis (open-source PaaS for Kubernetes)

### Solution Architect
**HashCode | Zagreb, Croatia | Jun 2014 - Aug 2015**

- Lead the development of a process optimisation solution for a large US telecom operator:
  - Initiated the collaboration by performing on-site analysis and consulting in Atlanta and Kansas City
  - Kicked-off the prototype development, implemented an MVP
- Designed and partially implemented an in-house workflow automation tool
- Scala, Java, Jave EE, Python

### Software Engineer > Solution Architect
**Ericsson Nikola Tesla | Zagreb, Croatia | Mar 2011 - Jul 2014**

- Took part in implementation of Ericsson-wide tools for optimisation of Radio Access Network protocols
- Organised 1-2 week sessions across the globe (Dublin, Copenhagen, Beijing, Istanbul, Dusseldorf, ...):
  - Pitched the implemented product to several regional Ericsson offices (pre-sales)
  - Demonstrated the product in a live setting on a physical radio base stations
  - Hosted workshops and trainings for educating site engineers on properly using the product
- Java, Python, Perl, Unix Shell (GNU Bash)

## Education

- Master's Degree in Computer Science,
  Faculty of Electrical Engineering and Computing, University of Zagreb, 2011
- Bachelor's Degree in Computer Science,
  Faculty of Electrical Engineering and Computing, University of Zagreb, 2009