

Resume / CV

Martin Krasser

Homepage: <http://www.martin-krasser.de>

Profile: <http://www.linkedin.com/in/krasserm>

Software developer and architect with 20 years industry experience and core competencies in:

- Distributed systems, data-intensive applications, event sourcing and CQRS, domain-driven design and (micro)service architectures.
- Designing applications for vertical and horizontal scalability, elasticity, high-availability, fault tolerance and global distribution.
- Event stream processing for real-time data analytics and large-scale enterprise application integration.
- Server-side software development with functional and object-oriented programming languages, mainly Scala and Java.
- Supporting the full software development lifecycle from concept to production with agile development approaches.

Current interests

- Distributed systems research
- Artificial intelligence research
- Machine learning and deep learning

Work Experience

Since 10.2015 Freelance software architect and engineer

agido GmbH, <http://www.agido.com>

- Architecture and design consulting for an online sports betting web application with an event sourcing and event stream processing architecture
- [Extensions](#) to [Eventuate](#) for supporting data analytics use cases
- Languages: Scala

Since 09.2014 Freelance software architect and engineer

Red Bull Media House, <http://www.redbullmediahouse.com>

- Global distribution of the customer's in-house digital asset management system. Responsible for architecture, design and implementation
- Conception and development of [Eventuate](#), a toolkit for event sourcing and event collaboration at global scale with causal consistency
- Languages: Scala, Java

Since 04.2011 Software architect, engineer and consultant

Self-employed, <http://www.martin-krasser.de>

- Software development services
- Software architecture consulting
- Software project team lead and mentor

10.2013 – 02.2014 Freelance software engineer

Lightbend, <http://www.lightbend.com/> (formerly Typesafe)

- Conception and development of [akka-persistence](#)
- Languages: Scala, Java

03.2012 – 10.2013 Freelance software architect and engineer

Eligotech BV, <http://www.eligotech.com>

- Development of an E-Wallet management web service for customers in the online gambling industry
- Conception and development of [Eventsourced](#), an open source project for building reliable, scalable and distributed event-sourced applications in Scala
- Languages: Scala, Java

02.2011 – 04.2011 Software architect and engineer

Talend, <http://www.talend.com>

- Development of scalability and high-availability concepts and prototypes for the Talend Integration Factory
- Languages: Scala, Java

01.2005 – 01.2011 Lead software architect and engineer

InterComponentWare AG, <http://www.icw.de>

- Conception and development of the [Open eHealth Integration Platform](#) (IPF), an eHealth integration platform on top of Apache Camel
- Large-scale production deployments of IPF in several international [customer projects](#)
- Development of Scala extensions for Apache Camel: [akka-camel](#) and [scalaz-camel](#) which later evolved into the [Streamz](#) project.
- Development of LifeSensor, a web-based personal health record
- Languages: Java, Scala, Groovy

09.2000 – 12.2004 Senior software architect and engineer

LION bioscience AG, <http://www.lionbioscience.com>

- Development of an activity tracking web service for pharmaceutical research projects
- Development of classification algorithms for chemical structures and biological data
- Production deployment at a customer in the pharmaceutical industry
- Languages: Java, C/C++

02.1999 – 08.2000 Software developer, Research assistant

CAME, University of Salzburg, <http://uni-salzburg.at>

- Development of algorithms and software for ab-initio protein structure prediction
- Application of statistical mechanics to derive knowledge based potentials
- Languages: C/C++

07.1998 – 01.1999 Software developer

Austrian Red Cross, <http://www.rotekreuz.at/>

- Development of a patient transportation management system
- Languages: Visual Basic, C/C++

Technical Overview

- Programming languages: Scala, Java, Python, C/C++, Haskell
- Profound knowledge of the [Lightbend Reactive Platform](#) and many other Scala libraries and frameworks
- Profound knowledge of the Java SE and Java EE stack and many other Java libraries and frameworks
- Strong experience with both SQL and NoSQL databases (Oracle, MySQL, PostgreSQL, Cassandra, HBase, DynamoDB, MongoDB, LMDB, LevelDB, ...)
- Strong experience with Apache Kafka and its ecosystem
- Strong experience with stream processing tools (Akka Streams, Kafka Streams, Spark Streaming, ...)
- Experience with machine learning and deep learning tools (Spark MLlib, scikit-learn, deeplearning4j, Octave...)
- Experience with cloud computing environments (Amazon Web Services, Google Cloud Platform, ...) and container technologies (Docker, ...)

Open Source Projects

- [Eventuate](#) (Founder, Committer)
- [Streamz](#) (Founder, Committer)
- [Akka](#) (Committer)
- [Apache Camel](#) (Committer)
- [Eventsourced](#) (Founder, Committer)
- [Open eHealth Integration Platform](#) (Founder, Committer)
- More at Github accounts [krasserm](#), [rbmhtechnology](#) and [eligosource](#)

Publications and Presentations

- Blog posts <http://krasserm.github.io>
- 2015 - [A Comparison of Akka Persistence with Eventuate](#) (Munich, Hamburg)
- 2011 - [Connecting Akka to the Rest of the World](#), Scala eXchange 2011
- 2010 - Chapter [Akka and Camel](#) in book [Camel in Action](#)
- [Older presentations](#)

Education

- 1997 - MS in Chemistry (Mag. rer. nat.) with distinction, Karl-Franzens Universität Graz
- 1996 - Various courses in computer science