



Julian Kranz

Curriculum Vitae

Personal Data

Birth **22.11.1988**, *Munich*, Germany.
Marital status **Single**.
Nationality **German**.

Education

School

09/1995 – **Primary school**, *Grundschule Percha, Berg*, Germany.
07/1999
09/1999 – **Secondary school**, *Landschulheim Kempfenhausen, Berg*,
07/2008 Germany.
07/2008 **Abitur with a grade of 1.7**.

University

10/2008 – **Bachelor's studies in informatics**, *Technische Universität*
07/2011 *München*, Munich, Germany.
12/2011 **Bachelor of Science in informatics with a grade of 1.8**,
Technische Universität München, Munich, Germany.
10/2011 – **Master's studies in informatics**, *Technische Universität*
07/2013 *München*, Munich, Germany.
12/2013 **Master of Science in informatics with a grade of 1.2**,
Technische Universität München, Munich, Germany.

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since 07/2013 **PhD studies**, *Technische Universität München*, Munich, Germany.

Professional Career

2008 **Comet Computer GmbH**, *Software Developer*.
2011 – 2013 **Technische Universität München**, *Research Assistant*.
since 07/2013 **Technische Universität München**, *Research Associate*.
07/2016 – **Google Inc.**, *Software Engineering Intern*, Zurich, Switzerland.
10/2016
06/2017 – **Google Inc.**, *Software Engineering Intern*, Zurich, Switzerland.
09/2017

Miscellaneous

2007 – 2008 **School-accompanying studies in informatics**, *Technische Universität München*, Munich.

Skills

Language Skills

English good knowledge *professional practice*

Programming Language Skills

C good knowledge *about three years of practical experience*

C++ good knowledge *about five years of practical experience, including recently added language features*

Java good knowledge *about nine years of occasional use*

C# basic knowledge

Ocaml basic knowledge

D basic knowledge

Rust basic knowledge

Assembly knowledge about x86, AVR, ARM

Operating Systems

Linux good knowledge *12 years of intensive use*

Windows basic knowledge

Mac OS X no knowledge

Publications

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- December 2017 **Modular Analysis of Executables Using On-Demand Heyting Completion**, *J. Kranz and A. Simon*, VMCAI 2018: Verification, Model Checking, and Abstract Interpretation.
- September 2014 **Structure-Preserving Compilation: Efficient Integration of Functional DSLs into Legacy Systems**, *J. Kranz and A. Simon*, Principles and Practice of Declarative Programming, ACM.
- January 2014 **The GDSL toolkit: Generating Frontends for the Analysis of Machine Code**, *A. Simon and J. Kranz*, Program Protection and Reverse Engineering Workshop, PPREW '14, ACM.
- December 2013 **GDSL: A Universal Toolkit for Giving Semantics to Machine Language**, *J. Kranz, A. Sepp and A. Simon*, Asian Symposium on Programming Languages and Systems, Springer.
- September 2012 **GDSL: A Generic Decoder Specification Language for Interpreting Machine Language**, *A. Sepp, J. Kranz and A. Simon*, Tools for Automatic Program Analysis, volume 289 of ENTCS, pages 53-64, Springer.

Munich, 20. September 2018