



Dipl.-Ing. David Leopoldseder BSc.

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Austria

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WORK EXPERIENCE

Institute for System Software,
Johannes Kepler University, Linz,
Austria.

March 2017 — Present

Researcher

Doing a PhD on Graal, a JIT compiler for Java.

Oracle Labs

April 2016 — Feb 2017

Member of Technical Staff

Working on Graal, a JIT compiler for Java.

Institute for System Software,
Johannes Kepler University, Linz,
Austria.

March 2014 — March 2016

Student Researcher

Working on "Graal AOT JS", a Java bytecode to JavaScript compiler which is built on-top of the Graal VM.

Institute for Microprocessor
Technology, Johannes Kepler
University, Linz, Austria.

February 2014 — July 2014

Tutor for the course "Applied Operating Systems"

Institute for Pervasive Computing,
Johannes Kepler University, Linz,
Austria.

October 2013 — February 2013

Tutor for the course "Software Development 1"

ekey biometric systems

July 2013 — October 2013

Internship Microprocessor Programming

Design and implementation of a bare metal driver for a fingerprint swipe sensor. Bachelor thesis „Driver Development for a Fingerprint Swipe Sensor: Incorporating Upek’s TCS4H into the AT91SAM9G20“

Institute for Microprocessor
Technology, Johannes Kepler
University, Linz, Austria.

February 2013 — July 2014

Tutor for the course "Applied Operating Systems"

Institute for Pervasive Computing,
Johannes Kepler University, Linz,
Austria.

February 2013 — July 2014

Tutor for the course "Algorithms and Data Structures 1"

Institute for Pervasive Computing,
Johannes Kepler University, Linz,
Austria.

October 2012 — February 2013

Tutor for the course "Software Development 1"

EDUCATION

Doctoral Studies in Computer
Science: Software Engineering

March 2017 — Present

Johannes Kepler University, Linz, Austria.

Doing a PhD on Graal, a Java JIT Compiler.

Master Studies in Computer
Science: Software Engineering

Oktober 2014 — March 2016

Johannes Kepler University, Linz, Austria.

Personal emphasis on Compiler Construction and VMs.

Master Thesis: "Graal AOT JS - A Java bytecode to JavaScript compiler".

Passed with distinction.

Bachelor Studies in Computer
Science

2011 — 2014

Johannes Kepler University, Linz, Austria.

Bachelor Thesis: "Driver Development for a Fingerprint Swipe Sensor: Incorporating Upek's TCS4H into the AT91SAM9G20"

Grammar School

2002 — 2010

BG / BRG Freistadt

"Bundesrealgymnasium".

Closed with general qualification for university entrance.

Primary School

1998 — 2002

Volksschule Weitersfelden

PUBLICATIONS

- Leopoldseder, D.; Stadler, L.; Wimmer, C.; Mössenböck H.:
***Java-to-JavaScript Translation via Structured Control Flow
Reconstruction of Compiler IR***
11th Dynamic Language Symposium, October 27, 2015, Pittsburgh, Pennsylvania,
USA.

TALKS

- Virtual Machine Meetup 2015 (VMM'15).
Title: „Graal Javascriptify. Compiling Java AOT to JavaScript“
- Dynamic Language Symposium 2015 (DLS'15), Pittsburgh, Title: "Java-to-JavaScript Translation via Structured Control Flow Reconstruction of Compiler IR"