

Jörg Thalheim

SOFTWARE ENGINEER

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Education

TU Dresden

DIPLOMA IN INFORMATIONSSYSTEMTECHNIK

- GPA of Thesis (Diplom): 1.3
- Advanced Courses: Systems Engineering & Communications Networks

Dresden, Germany

Sep. 2011 - Feb. 2017

Experience

Microsoft Research

RESEARCH INTERNSHIP

- **Project:** Intel Processor Trace Based Root Cause Analysis
- **Mentor:** Dr. Baris Kasikci

Cambridge, England

May 2017 - August 2017

Bell Labs

RESEARCH INTERNSHIP/THESIS

- **Project:** Sieve: Towards Actionable Insights from Monitored Metrics in Microservices
- **Mentor:** Dr. Bimal Viswanath

Stuttgart, Germany

March 2016 - July 2016

TU Dresden

RESEARCH ASSISTANT IN PARALLEL AND DISTRIBUTED SYSTEMS GROUP

- **Project #1:** Inspector — Data provenance for multithreaded programs using Intel Processor Trace (Intel PT)
- **Project #2:** Cntr — Lightweight OS containers
- **Advisor:** Dr. Pramod Bhatotia

Dresden, Germany

September 2015 - Feb 2017

Whisp GmbH

SOFTWARE ENGINEER & FOUNDER

- Recommendation platform driven by user opinions
- Ruby on Rails based API
- Server administration
- Android development

Dresden, Germany

January 2013 - January 2015

FSD Fahrzeugsystemdaten GmbH

ASSISTANT

- Development of a generic car anti shock test
- Taking and evaluating measurements

Dresden, Germany

January 2011 - August 2011

Publications

Sieve: Towards Actionable Insights from Monitored Metrics in Microservices

JÖRG THALHEIM, ANTONIO RODRIGUES, BIMAL VISWANATH, ISTEMI EKIN AKKUS, PRAMOD BHATOTIA, RUICHUAN

2017

CHEN, LEI JIAO, AND CHRISTOF FETZER

- **ACM/USENIX SYSTOR'17** (*Under submission*)

OS Containers on Diet using Cntr

JOERG THALHEIM, FRANZ GREGOR, PRAMOD BHATOTIA, AND CHRISTOF FETZER

2016

- **USENIX OSDI'16** (*Work-in-progress*)
- Project Page: <https://github.com/Mic92/cntr>

Savannah (USA)

Inspector: Data Provenance using Intel Processor Trace (PT)

JOERG THALHEIM, PRAMOD BHATOTIA, AND CHRISTOF FETZER

2016

- **IEEE ICDCS'16**
- Project Page: <https://github.com/Mic92/inspector>

Nara (Japan)

Talks

ICDCS'16

INSPECTOR: DATA PROVENANCE USING INTEL PROCESSOR TRACE (PT)

Nara (Japan)

Jun. 2016

Thesis defense

SIEVE: TOWARDS ACTIONABLE INSIGHTS FOR MONITORED MICROSERVICES

Dresden (Germany)

Feb. 2017

Final presentation at Bell Labs

AUTOSCALING OF MICROSERVICES

Stuttgart (Germany)

Jul. 2017

Awards

2016 **Travel grant for ICDCS'16**, ICDCS 2016

Nara, Japan

Projects

docker

- Maintainer of the ZFS Graph-driver
- Smaller contributions

Nixpkgs/Nixos

- Core maintainer of Nixos, a functional Linux distribution
- <https://github.com/Nixos/nixpkgs/>

python-mpd2

- python library for the MPD network protocol
- <https://github.com/Mic92/python-mpd2>

Skills

Programming Ruby, Python, C/C++, Go, Java, Shells scripting, JavaScript, Lua

Administration Chef, Ansible, Mail-/Web-server, Network: BGP/OSPF/IPv6

Databases Postgresql, Mysql, MongoDB, Elasticsearch, Redis

Web Ruby-On-Rails, Flask, Sinatra

Languages German, English, French

OS-Visualisation LXC, Docker, systemd-nspawn, FreeBSD jails

Other git, test-driven development, active in the open source community

References

- [1] **Prof. Dr. Pramod Bhatotia** The University of Edinburgh, UK | ✉ pramod.bhatotia@ed.ac.uk
[2] **Prof. Dr. Christof Fetzer** TU Dresden, Germany | ✉ christof.fetzer@tu-dresden.de