

Joel Scheuner

SOFTWARE ENGINEER

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Education

PhD Candidate in Computer Science

CHALMERS UNIVERSITY OF TECHNOLOGY

- Research areas: Cloud Computing, Performance Engineering
- WASP Graduate School: Granted PhD funding from Sweden's largest individual research program

2017/09 – present
Gothenburg, Sweden

Master of Science in Informatics, Software Systems (5.8/6.0)

UNIVERSITY OF ZURICH

- With the highest degree of praise *summa cum laude*
- Master thesis: Master thesis: Cloud Benchmarking – Estimating Cloud Application Performance Based on Micro Benchmark Profiling
- Master project: Probr – A Generic and Passive WiFi Tracking System (probr.ch)

2014/09 – 2017/06
Zurich, Switzerland

Exchange Semester, Computer Science

UNIVERSITY OF UPPSALA

- Focus on functional programming (SML, Erlang, Haskell, Racket)

2015/09 – 2016/01
Uppsala, Sweden

Bachelor of Science in Informatics, Software Systems (5.6/6.0)

UNIVERSITY OF ZURICH

- With the highest degree of praise *summa cum laude*
- Bachelor thesis: Cloud WorkBench – A Web-Based Framework for Benchmarking Public Cloud Services (☁ Cloud WorkBench)
- Elective courses in Economics

2010/09 – 2014/08
Zurich, Switzerland

Experience

Software Developer, Ruby on Rails (40%)

UNIVERSITY OF ZURICH, SOFTWARE EVOLUTION & ARCHITECTURE LAB

- Built a cloud deployment recommendation service using constraint modeling
- Setup UI integration test suite
- Managed deployment pipelines

2016/04 – 2017/03
Zurich, Switzerland

Application Developer, Android and iOS (100%)

ABRAXAS INFORMATIK AG

- Implemented a Mobile Device Management showcase for Android
- Developed enterprise tablet applications for iOS
- Evaluated Enterprise File Sharing and Synchronization products

2013/06 – 2013/12
Zurich, Switzerland

Internship, Business Process Management (BPM) Tool Suites in Practice (100%)

ELCA INFORMATIK AG

- Modeled a concrete business case in BPMN 2.0 notation
- Built prototypes for 4 BPM products

2012/07 – 2012/09
Zurich, Switzerland

Skills

Programming

Ruby (intermediate), Bash (intermediate), LaTeX (intermediate), Java (familiar),
Have written programs in various other languages including Objective-C, C++, Haskell, Erlang, Python, R, etc.

Methodology

DevOps (Vagrant, Opscode Chef), cloud services (Amazon EC2), testing (RSpec, Capybara, JUnit), modeling (BPMN 2.0)

Languages

English (fluency in writing and speaking, C1-C2), German (native), French (basic, A2-B1), Swedish (beginner, A1)

Honors and Awards

2017	Backstage @ Google Google Zurich: Selected for recruiting event including mock interview	Zurich, Switzerland
2016	Best Demo Award 41th IEEE Conference on Local Computer Networks (LCN) – Demo Track	Dubai, United Arab Emirates
2016	Google Techtalk Award and Greater Zurich Area Award with the team PowerParrot HackZurich 2016: The biggest European hackathon	Zurich, Switzerland
2015	Google Student Grant 24th International World Wide Web Conference (WWW) – Demo Track	Florence, Italy
2015	Semester Award for outstanding scholarly work University of Zurich: In recognition for my bachelor thesis	Zurich, Switzerland
2014	2nd Place Student Prize INCOSE Swiss Society of Systems Engineering: In recognition for my bachelor thesis	Zurich, Switzerland

Teaching and Research

Course Assistant/Supervisor, DIT341 – Web and Mobile Development (Fall 2018)

2018/09 – 2018/10

CHALMERS | UNIVERSITY OF GOTHENBURG

Gothenburg, Sweden

- Held lectures on backend design, backend implementation, and HTML
- Held weekly supervision sessions
- Supported structuring and building this new course from scratch

Course Assistant/Supervisor, DIT032/DAT335 – Data Management (Spring 2018)

2018/01 – 2018/03

CHALMERS | UNIVERSITY OF GOTHENBURG

Gothenburg, Sweden

- Held lecture on relational algebra
- Devised course assignments on topics including EER, RA, SQL, JDBC
- Managed three teaching assistants

Teaching Assistant, Software Engineering Lab (Spring 2016)

2016/02 – 2016/06

Teaching Assistant, Software Engineering Lab (Spring 2015)

2015/02 – 2015/06

UNIVERSITY OF ZURICH, SOFTWARE EVOLUTION & ARCHITECTURE LAB

Zurich, Switzerland

- Held lecture on RESTful API design and the Java Spring Framework
- Mentored 2-3 student groups

Research Assistant (40%), Cloud Performance Benchmarking

2014/10 – 2015/07

UNIVERSITY OF ZURICH, SOFTWARE EVOLUTION & ARCHITECTURE LAB

Zurich, Switzerland

- Wrote and peer-reviewed scientific papers
- Designed and executed a large-scale benchmarking study
- Collaborated with researchers in the UK to design and conduct a joint research project
- Maintained the open source benchmarking toolkit Cloud WorkBench

Teaching Assistant, Informatics I – Introduction to Programming (Fall 2014)

2014/09 – 2014/12

UNIVERSITY OF ZURICH, SOFTWARE EVOLUTION & ARCHITECTURE LAB

Zurich, Switzerland

- Created exercise material and mid-term exams

Tutor, Informatics IIa – Modeling (Spring 2012)

2012/02 – 2012/06

UNIVERSITY OF ZURICH, REQUIREMENTS ENGINEERING RESEARCH GROUP

Zurich, Switzerland

- Gave exercise lessons

Publications and Conference Presentations

Cloud Benchmarking – Estimating Cloud Application Performance Based on Micro Benchmark Profiling

Presented in 2018/07/02

J. SCHEUNER, P. LEITNER

San Francisco, USA

- In Proceedings of the 11th IEEE International Conference on Cloud Computing (CLOUD)

A Cloud Benchmark Suite Combining Micro and Applications Benchmarks

Presented in 2018/04/10

J. SCHEUNER, P. LEITNER

Berlin, Germany

- In Companion of the 9th ACM/SPEC International Conference on Performance Engineering (ICPE) – QUDOS Workshop

An Approach and Case Study of Cloud Instance Type Selection for Multi-Tier Web Applications

Published in 2017

C. DAVATZ, C. INZINGER, J. SCHEUNER, P. LEITNER

- In Proceedings of the 17th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing (CCGrid)

Probr – A Generic and Passive WiFi Tracking System

Presented in 2016/11/09

J. SCHEUNER, G. MAZLAMI, D. SCHÖNI, S. STEPHAN, A. DE CARLI, T. BOCEK, B. STILLER

Dubai, United Arab Emirates

- In Proceedings of the 41th IEEE Conference on Local Computer Networks (LCN)

Probr Demonstration – Visualizing Passive WiFi Data 🏆 Best Demo Award

Demonstrated in 2016/11/08

J. SCHEUNER, G. MAZLAMI, D. SCHÖNI, S. STEPHAN, A. DE CARLI, T. BOCEK, B. STILLER

Dubai, United Arab Emirates

- In Proceedings of the 41th IEEE Conference on Local Computer Networks (LCN) – Demo Track

Bursting with Possibilities – an Empirical Study of Credit-Based Bursting Cloud Instance Types

Presented in 2015/12/09

P. LEITNER, J. SCHEUNER

Limassol, Cyprus

- In Proceedings of the 8th IEEE/ACM International Conference on Utility and Cloud Computing (UCC)

Cloud WorkBench: Benchmarking IaaS Providers based on Infrastructure-as-Code

Demonstrated in 2015/05/20

J. SCHEUNER, J. CITO, P. LEITNER, H. GALL

Florence, Italy

- In Proceedings of the 24th International World Wide Web Conference (WWW) – Demo Track

Cloud WorkBench – Infrastructure-as-Code Based Cloud Benchmarking

Presented in 2014/12/16

J. SCHEUNER, P. LEITNER, J. CITO, H. GALL

Singapore, Republic of Singapore

- In Proceedings of the 6th IEEE International Conference on Cloud Computing Technology and Science (CloudCom)

Personal Interests

Teaching

Acquiring new knowledge in order to share it within a team is a typical role I can identify with

Sports

Floorball (as an active player and youth coach), Running, Hiking, Skiing

Creativity

Photography (I like building and optimizing workflows for common operations such as publishing images),
Video editing (I was mainly curious about learning how to use non-trivial software products for this purpose)