Matthias Höschele

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Objective

I am a second year PhD student of computer science at Saarland University. I want to ease and automate testing and debugging by finding new ways to apply program analysis techniques. I apply for a Google internship because I want to complement my view on software engineering and the challenges and needs of programmers. I would love to get a practical perspective on software engineering, gain some experience in industry and improve my skills while working for one of the most successful software companies in the world.

Education

Saarland University – Graduate School of Computer Science since Oct 2009

- ► Scholarship for PhD and Master phase; ~5% candidates accepted.
- ► Master's Degree in CS with overall grade 1.2 (1.0 is the best possible) in Nov 2011. Topics: Automated Testing & Debugging, Software Analysis, Verification, Cryptography, Semantics, Image Analysis.
- ► Master thesis on *Specification Mining* with grade 1.3.

Saarland University, Saarbrücken, Germany 2006 – 2009

- ► Bachelor's Degree in CS with minor in Maths (grade 1.7).
- ► Got best possible grade 1.0 in Programming, Information Systems and Concurrent Programming.
- ► Got excellent grade 1.3 in Theoretical Computer Science, Data Structures and Algorithms, System Architecture and Automatic Parallelization.
- ► Master thesis on *Automatic Theorem Proving* grade 1.3.

Honours

- ► 2008: Exempted from tuition fees; among top 5% students for two semesters.

Teaching

- ► 2013: Taught a seminar on *Software Testing* for undergraduate students.
- ► 2012: Drafted and organized the *Software Design Lab* of the faculty as teaching assistant for approximately 150 students. In the course evaluation it was ranked as one of the top 3 undergraduate courses of the semester.
- ► 2011: Reviewed students' design drafts for the *Software Design Lab* of the faculty.
- ► 2007-2010: Tutoring introductory lectures on programming and theoretical computer science and lectures *Automated Testing & Debugging* and *Introduction to Computational Logic*; gave tutorials and office hours, marked tests, projects and exams.

Skills

Technical

- ► Java: extensive experience, used in various courses, Master thesis and current research.
- ► JavaScript: basic, used in Bachelor thesis, together with an early version of GWT.
- ► Python: intermediate, used in some courses, for scripting and for private projects.
- ► C/C++: basic, as part of an introductory course and used in some coursework to build a raytracer.

Social

- Spoken & written languages: German (native), English (excellent), French (basic knowledge)
- 2009-2011: Member of Students' Representatives Council; student counselling, organisation of social events.
- 2010: Helped planning a 2 day visit at Google Zurich for students of Saarbrücken Graduate School of Computer Science and the International Max Planck Research School for Computer Science.
- 2003-2005: Participated in the creation of a city guide for people with reduced mobility for the cities Bad Friedrichshall and Ludwigsburg.

Personal Interests

Music

- Regularly attends festivals and concerts from many genres including classical music, rock and heavy metal.
- Sang and sings in various choirs and amateur bands.
- Played piano and plays keyboard in an amateur band.

Technology

- Interested in small custom hardware and software projects for personal use like custom NAS or HTPC solutions and various applications for *Raspberry Pi* and *Arduino*.

References

Prof. Dr. Andreas Zeller, Head of Software-Engineering Chair at Saarland University

- Supervisor of Masters thesis, and PhD Supervisor.
- Contact:
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