

Lukas Schäfer

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Education

University of Edinburgh

Edinburgh, United Kingdom

Master of Science (MSc) in Informatics

09/2018 – Present

- Expected graduation in August 2019
- focus on **Machine Learning** and **Autonomous Robotics**

Saarland University

Saarbrücken, Germany

Bachelor of Science (BSc) in Computer Science with minor subject Japanese

10/2015 – 08/2018

- Degree classification: grade of **1.3** (German scale) equivalent to UK **1st class honours**
- BSc thesis: Domain-Dependent Policy Learning using Neural Networks in Classical Planning

Warndtgymnasium Geislautern, Völklingen

Geislautern, Germany

Secondary School

08/2008 – 07/2015

- Graduated **Abitur 1.0** with examination subjects:
Mathematics - 15, English - 12, Computer Science - 14, German - 15, History - 15

Working & Voluntary Experience

Dependable Systems and Software Group

10/2016 – 03/2017

Teaching Assistant for "Programming 1" lecture

- Taught first-year students fundamental concepts of functional programming, basic complexity theory and inductive correctness proofs in weekly tutorials and office hours
- Corrected weekly tests as well as mid- and endterm exams
- Collectively created learning materials and discussed student progress as part of the whole teaching team

Mathematics Preparation Course

09/2017 – 10/2017

Voluntary Lecturer and Coach

- Assisted the organization of the mathematics preparation course for upcoming computer science students
- Introduced ~ 250 participants to the importance of mathematics for computer science, formal languages and predicate logic in daily lectures of the first week
- Supervised two groups to provide feedback and further assistance in daily coaching-sessions
- The course received the BESTE-award for special student commitment 2017 of the Saarland University

Project Experience

Plagiarism Detection Tool, Saarland University

04/2017 – 07/2017

Group Project for Software Engineering Lecture

- Researched, planned, designed and built a prototype for Prof. Dr. Rossow at Saarland University
- Implemented reliable similarity detection for text & code with language-specific analysis for Python and C
- Designed and implemented a HTML-output creation, highlighting similar submissions and plagiarism cases
- Our software is now successfully used in our customer's lectures to detect plagiarism cases on Python code

Concurrent CDCL SAT-Solver, Saarland University

07/2017 – 09/2017

Group Project for Modern Imperative Programming Languages Seminar

- Planned and implemented a concurrent Conflict-Driven Clause Learning SAT-Solver using Rust
- Optimised literal assignment using multiple heuristic strategies, pure variable detection and handling

Skills & Interests

Programming: Python, C, C++, Java, Rust, SML, Bash

Markup: HTML, CSS, \LaTeX , Markdown

Technologies/ Tools: UNIX, Git, TensorFlow, Keras, NumPy, Vim

Languages: Fluent in German and English, advanced in French, beginner in Japanese

Interests: Programming, Reading, Music, Travelling, Fitness, Gaming

[References available on request - CV last updated as of September 13, 2018]