Jonas Schäfer

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Education

University of Birmingham **Birmingham, United Kingdom**
Bachelor of Science (BSc) in Computer Science *09/2018 – Present*

- Expected graduation in June 2021
- Current average of assessed work: **85%**
- First year Computer Science courses (20CP each): *Programming in Java, Mathematical Foundations, Artifical Intelligence, Data Structures & Algorithms, Logic & Computation*
- First year Widening Horizons Module - Astronomy (20CP): *The Cosmic Connection*

Warndt-Gymnasium, Völklingen **Geislautern, Germany**
Secondary School *08/2010 – 07/2018*

- Graduated **Abitur 1.5** with examination subjects:
  English - 14, Mathematics - 13, Informatics - 12, Geography - 10, German - 13
- Honor received for **Year's best Informatics exam**

Programming Projects

Maze Mapper - Data Structures & Algorithms - 100/100 *01/2019 - 02/2019*

- Implementing a *Drone* class that can move through an arbitrary *Maze* (consisting of chambers and connections between them) and maps it using various data structures and methods. At any point it can return (loop-less) to its origin.
- Improved my programming capabilities by using more complex data structures and implementing an advanced project.

Genetic Algorithm(s) - Programming in Java - 100/100 *11/2018 - 12/2018*

- Designing an *Individual* representation as well as implementing an abstract genetic algorithm *GAApplication* class that can be specified into a *Binary Maximiser*, *Weasel* or *Maths* genetic algorithm.
- Learned to properly use tools of Java as an Object-oriented programming language and how to design and adjust GAs.

Email-Address Finder - Programming in Java - 95/100 *10/2018 - 11/2018*

- Implementation of a *findEmailAddress* method to read valid email addresses out of a corrupted database file
- Quickly learned to apply the newly learned programming language theory of *Java* to write this first proper method.

Further projects, details and code can be found on my GitHub repository

Internship Experience

Engineering Internship "IngFo" at Saarland University (2 weeks) *07/2015*

- 2 week Internship introducing me to a wide range of Engineering fields:
  Materials Engineering, Materials Science, Systems Engineering, Automation Engineering, Construction Technology, Metrology, Drive Technology, Micro- and Nanotechnology

Extracurricular Activities

Astronomy Talk *03/2017*

- Advertising science subjects at the *Science night* of the Warndtgymnasium by explaining astronomic phenomenons
- Demonstrated presentation skills and the ability to share enthusiasm for Science with others

Skills & Interests

Programming: Java
Markup: LaTeX, Markdown
Technologies / Tools: Git
Languages: German (native), English (fluent), French (advanced), Polish (basic)
Interests: Programming, Sciences (esp. Space-related), Music (esp. playing the guitar & piano), Languages, Travelling

[References available on request - CV last updated as of March 3, 2019]