

# Jonas Schäfer

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## 📊 SKILLS & INTERESTS

### PROGRAMMING

Java, C, JS, Python, Haskell, Zsh

### MARKUP

HTML, CSS,  $\text{\LaTeX}$ , Markdown

### TECHNOLOGIES AND TOOLS

Git, UML, Linux, macOS

### LANGUAGES

- German (native)
- English (fluent)
- French (advanced)

### INTERESTS

Science videos and articles,  
Music (playing the guitar & piano),  
Languages, Travelling

## 🎓 EDUCATION

### UNIVERSITY OF BIRMINGHAM

BSc Computer Science

09/2018 – 06/2021 | Birmingham, UK

- 1st Year average: 2.1 Honours
- Student Representative for 2nd Year Computer Science courses
- Fields covered so far include:
  - Artificial Intelligence
  - Software Engineering
  - Data Structures & Algorithms
  - Robotics
  - Systems Programming
  - Mathematics & Logic
  - Functional Programming

### WARNDTGYMNASIUM

Abitur | Overall 1.5

07/2018 | Geislautern, Germany

- Examination subjects:
  - English – 14
  - Mathematics – 13
  - Informatics – 12
  - Geography – 10
  - German – 13
- Honor received for Year's best final Informatics exam

## 🧰 WORK EXPERIENCE

### FULL STACK WEB DEVELOPER | Climate Science

Dec 2019 – Now | Part-time (voluntary) | Remote

- Creation of a webpage enabling content creation for an educational app
- Core features:
  1. **Convenience:** writing articles with dynamic intuitive components
  2. **Preview:** preview appearance exactly like on Web / Mobile App
  3. **Integration:** export to JSON and integrate into back-end database

### IT SYSTEM ADMINISTRATOR | ProWIN Winter GmbH

Jul 2019 (3 weeks) | Full-time Internship | Illingen, Germany

- Projects and impact:
  1. drastically improved Bookkeeping by automating order confirmation
  2. improved safety of the network by improving password policies
  3. sped up workflow of all employees by developing a quick-access navigation tool to reach employees' most used websites
- » I improved the company's operating efficiency and network security

## 🔗 PROJECT EXPERIENCE

### STUDENT APP PROPOSAL - 92.5% | University Assignment

Dec 2019

- 📄 Application Proposal for a Mental Health App that automates large parts of daily scheduling to help students organise themselves
- » Successfully lead a group of 7 as a Scrum master and went through the whole development cycle up to implementation

### GRAVITY SIMULATOR IN JAVA | Private Software Project

Nov 2019

- 📄 Simulator of gravitational forces in 3D space capable of performing complex n-body simulations with extensive logging output, collision detection, real-time mode and more features.
- » I prove my ability to produce clean, easily customizable and well-documented code for complex private projects.

### ROBOT MAZE SOLVER - 100% | University Assignment

Mar 2019

- I lead a Group of 3 on the design and implementation of a highly complex 📄 Maze solving program for a Lego EV3 robot
- Core features: Mapping using sensor scans, live bluetooth transmission to GUI, A\* path finding, call-back function, fastest route prediction
- » I successfully lead my team under time pressure and applied a variety of new technologies and programming techniques.