

# Jonas Schäfer

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## 📊 SKILLS & INTERESTS

### PROGRAMMING

Java, C, TypeScript, JavaScript, Python, Haskell, Zsh

### MARKUP

HTML, (S)CSS, L<sup>A</sup>T<sub>E</sub>X, Markdown

### TECHNOLOGIES AND TOOLS

Git, Angular (Material), Firebase, UML, Linux, macOS

### LANGUAGES

- German (native - C2)
- English (fluent - C2)
- French (advanced - B1)

### 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
  - Security & Network
  - Software Engineering
  - Data Structures & Algorithms
  - Robotics
  - Systems Programming
  - Mathematics & Logic

### WARNDTGYMNASIUM

Abitur | Overall 1.5

07/2018 | Geislautern, Germany

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

## 👛 WORK EXPERIENCE

### FULL STACK WEB DEVELOPER | Climate Science

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

- Developing the subdomain [learn.climate-science](#) in a 4-developer group
  1. **Audience:** The subdomain will allow further deployment of our **courses in schools** using laptops for teachers and students
  2. **Development speed:** from concept to deployment in **4 weeks**
- (ongoing) Plan and development of a **CMS to improve workflow** of authors, reviewers and translators + automate content deployment
- Acquired large parts of my web technology knowledge, built and deployed a customer-facing product **all within one month**

### 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
- 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.