

# Jonas Schäfer

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## 🎓 EDUCATION

### UNIVERSITY OF BIRMINGHAM

BSc Computer Science

09/2018 – 06/2021 | Birmingham, UK

- 1st Year average: 2.1 Honours
- Fields covered by the course so far:
  - Artificial Intelligence
  - Software Engineering
  - Data Structures & Algorithms
  - Robotics
  - Java
  - C & 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

## 💻 SKILLS & INTERESTS

### PROGRAMMING

Java, C, Zsh (basic), Haskell

### MARKUP

LaTeX, Markdown, HTML

### TECHNOLOGIES AND TOOLS

Git, UML, Agile Dev, Linux, macOS

### LANGUAGES

German, English (fluent), French (adv.)

### INTERESTS

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

## 👛 WORK EXPERIENCE

### IT SYSTEM ADMIN. INTERN | ProWIN Winter GmbH

Jul 2019 (3 weeks) | Illingen, Germany

#### ➤ Projects and impact

1. **drastically improved Bookkeeping** by automating email traffic with an HTML Order Confirmation script
2. **sped up general workflow of employees** by developing a navigation tool to quickly reach employee's most used websites
3. **improved safety of the company's network** by defining new password policies
4. **Improved my soft skills** by providing support for employees as a Team over the IT Service Desk or in person

» In just three weeks I recognized opportunities of improvement and implemented software solutions to **improve the company's operating efficiency and network security.**

## 🔗 PROJECT EXPERIENCE

### STUDENT ORGANISATION APP | University Assignment

Dec 2019 | Birmingham, UK

- 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
- » Designed a software solution for real pressing issues

### GRAVITY SIMULATOR IN JAVA | Private Software Project

Nov 2019 | Birmingham, UK

- 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 - 20/20 | University Assignment

Mar 2019 | Birmingham, UK

- I lead a Group of 3 on the implementation of a highly complex maze solving program for a **Lego EV3 robot**
- Core implementations:
  1. Mapping of environment using US and IR scans
  2. bluetooth transmission to live-updating external GUI
  3. A\* path finding, call-back function, fastest route prediction

» I successfully lead my team under time pressure and both learned and applied a variety of new technologies and programming techniques.