

# 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
- Areas covered so far:
  - Mathematics & Logic
  - Functional Programming
  - Artificial Intelligence
  - Robotics
  - Data Structures & Algorithms
  - Java
  - Software Engineering
  - C & Systems Programming

### WARNDTGYMNASIUM

Abitur | 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, Haskell, Zsh (basic)

### MARKUP

LaTeX, Markdown, HTML

### TECHNOLOGIES AND TOOLS

Git, 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

- Individual development and integration of
  1. an automated HTML Order Confirmation script to improve Bookkeeping and reduce manual communication
  2. a Quick-navigation tool to navigate employee's most used websites in the network to improve working efficiency
  3. new password policies and password creation advice to improve safety of the company's network
- Teamwork to provide daily support for employees over the IT Service Desk using the collaborative Jira software
- I quickly adopted to the working environment at ProWIN where I both **recognized opportunities of improvement** and **implemented software solutions** to improve the company's workflow and network security.

## 🔗 PROJECT EXPERIENCE

### PHYSICS SIMULATOR IN JAVA | Private Software Project

Nov 2019 | Birmingham, UK

- The simulator currently **simulates gravity** in  $\Delta t$  time steps for all given objects within the space in either high-speed or real-time mode.
- It is capable of simulating the Sun-Earth-Moon system over a year with astounding precision as well as short runtime and has a **variety of features and extensive documentation**

### 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** using the **leJOS EV3 JVM**. Our software solution went far beyond the expected level of the module.
- **Core implementations:** US and IR Scanning + mapping of environment, bluetooth live-updating external GUI, A\* path finding, call-back function, fastest route prediction, partial concurrency
- I **successfully lead my team under time pressure** and both **learned and applied** a variety of new technologies and programming techniques.