Jonas Schäfer

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Education

University of Birmingham — **Birmingham, United Kingdom**
Bachelor of Science (BSc) in Computer Science — *09/2018 – 06/2021*

- 1st Year average: 2.1 Honours
- Year 1 module areas: Mathematics, Logic, Robotics & AI, Data Structures, Java
- Year 2 module areas: C & Systems Programming, Software Engineering, Functional Programming

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 final Informatics exam**

Work Experience

IT System Administration Intern at ProWIN Winter GmbH (3 weeks) *07/2019*

- **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 efficiency and network security.

Programming Projects

Physics Simulator in Java - Private Project 11/2019

- Currently it **precisely simulates gravity** for all given objects within the space in either high-speed or real-time mode.
- The simulator is capable of simulating the Sun-Eeart-Moon system over a year ($\Delta t = 0.1s$) with astounding precision and has a **variety of features and extensive documentation**

Complex Maze Solver - Robotics Groupwork - 20/20 *03/2019*

- I worked in a Group of 3 on the implementation of a highly complex maze solving program for a **Lego EV3 robot** using **leJOS EV3**. Our functionalities and documentation 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 over stack, fastest route prediction, partial concurrency

→ I **sucessfully lead my team under time pressure** and both learned and applied a variety of new technologies.

Please refer to my GitHub repository for more code and information.

Skills & Interests

Programming: Java, C, Haskell, Zsh (basic)
Technologies/Tools: Git, Unix (macOS)
Markup: LaTeX, Markdown, HTML
Languages: German, English (fluent), French (adv.)
Interests: Science videos and articles, Music (esp. playing the guitar & piano), Languages, Travelling

[CV last updated as of November 15, 2019]