Jonas Schäfer

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📊 SKILLS & INTERESTS

PROGRAMMING
Java, C, Haskell, Zsh (basic)

MARKUP
LaTeX, Markdown, HTML, CSS

TECHNOLOGIES AND TOOLS
Git, UML, Linux, macOS

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

INTERESTS
Science videos and articles,
Music (esp. 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

IT SYSTEM ADMIN. INTERN | ProWIN Winter GmbH
Jul 2019 (3 weeks) | Illingen, Germany
- Projects and impact
  1. **drastically improved Bookkeeping** by automating manual email traffic with an HTML Order Confirmation script
  2. **sped up workflow of all employees** by developing a navigation tool to quickly reach employee's most used websites
  3. **improved safety of the company's network** by defining improved password policies
  4. **Improved my soft skills** by providing support for employees as a Team over the IT Service Desk or in person
- » Improved the company's general operating efficiency and network security

</> PROJECT EXPERIENCE

STUDENT APP PROPOSAL - 92.5% | 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 - 100% | University Assignment
Mar 2019 | Birmingham, UK
- I **lead a Group of 3** on the design and 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 **sucessfully lead my team under time pressure** and **applied** a variety of new technologies and programming techniques.