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
  Java
  Data Structures & Algorithms
  Robotics
  C & Systems Programming
  Mathematics & Logic
  Functional 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

- 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 while 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

PHYSICS SIMULATOR IN JAVA | Private Software Project
Nov 2019 | Birmingham, UK

- Created an application that accurately simulates and logs a 3D space with gravitational forces acting on it.
- Capable of performing complex n-body simulations over years with astounding precision.
- Contains a number of features like *real-time mode*, is customizable and well documented.

» I display my ability to implement highly complex private projects which have real-life application potential.
» I prove my skill in producing clean and well-documented code.

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. US and IR scanning and mapping of environment
  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 both learned and applied a variety of new technologies and programming techniques.