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

[References available on request]

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 avigation tool to quickly reach employee's most used websites in the network in order 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 Δt 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.

» I display my ability to persue complex private projects which have real-life application potential. Additionally I prove my ability to produce clean and well-documented code.

"JOKE" COMMAND IN ZSH | Private Software Project
Nov 2019 | Birmingham, UK

- A small educational project where I implemented a global "joke" command that prints jokes to the terminal.

» I tought myself how to write my own shell commands in zsh using flag parsing and how to write man pages.

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