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, Unix (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 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 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**

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

> ❯ A small project of mine to get to zsh, flag parsing and man pages
> ❯ I implemented a global command "joke" that can take flags to output random/specific/all jokes from a text file and wrote a man page for it

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.