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