

# Joy de Carvalho Lucas

Berlin, Germany

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## **Objective**

As a bachelor's student pursuing a career in software engineering, I am excited to take on a challenging role in a dynamic and innovative organization. I'm confident in delivering high-quality code with the experience gained from programming projects in e.g. Java, Python, SQL and R at the university level and several personal projects.

My goal is to leverage my passion for creative problem-solving to make a positive impact on the task at hand. I'm seeking a role that offers opportunities to work with a team that continuously pushes the boundaries of what is possible in software engineering and data analysis.

### Education

#### **Technical University of Berlin**

Berlin, Germany Oct 2020 - Present

B.Sc. in Computer Science

· Relevant Courses:

ISDA - Fundamentals of Database Management Systems,

DWBI - Fundamentals of Warehousing and Data Mining,

Py. Ing. - Advanced Python Programming,

R Lab - Statistics using R,

Stochastic - Fundamentals of Statistics and Probability Distributions,

BeKo - Fundamentals of Graph Theory and Complexity Theory,

Artificial Intelligence - Introduction to Reinforcement Learning, Maschine Learning and Neural Nets

Max-Beckmann School Frankfurt am Main, Germany

High School

Aug 2016 - June 2019

• Specialised in: Physics, English, and Maths

• Took a computer science introductory course

# **University Projects**

### Water flow data analysis Berlin, Germany

Technical University of Berlin

Jan 2023 - Feb 2023

- Python Course
- To better understand the water flow field around a circular cylinder with a certain diameter,
   CFD simulations were carried out. The calculations were performed on an irregular 2D grid that intersects the cylinder so that it appears as a circle within it. The results for a discrete-time point were exported as a CSV file.
   The characteristics of that data were then analysed and plotted in Python.
- Technical Skills: Python, NumPy, Pandas, Matplotlib, JupyterLab.

Chess Game-Server Berlin, Germany

Technical University of Berlin

Feb 2022 - March 2022

- Java/ Haskell Course
- Built a game server in Java and Haskell for the Chinese version of chess. The game server managed the game and its connection to the Web-Frontend by checking the validity of chess moves made on the chess board by a user.
- Technical Skills: Java, Haskell, JUnit Tests, IntelliJ IDEA, Git.

### Skills

**Programming** Java, Python (Pandas, NumPy, scikit-learn, etc.), SQL, R(ggplot2), Swift, C.

**Miscellaneous** PyCharm, IntelliJ, XCode, VS Code, Git, Jupyter Notebook.

**Soft Skills** Problem-solving, Time Management, Teamwork, Documentation

## **Languages**

**English** Professional proficiency **German** Native proficiency

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