

# Patrick Treppmann

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## EDUCATION

### RWTH AACHEN

#### M.Sc. COMPUTER SCIENCE

Apr 2022 - Present

Specialization:

- Software Engineering
- Artificial Intelligence
- Distributed Systems

### UNIVERSITY OF WUPPERTAL

#### B.Sc. COMPUTER SCIENCE

Oct 2018 - Mar 2022

Thesis: Imitation Learning with Action Suggestions by an Expert

## SKILLS

### TECHNICAL

Frontend:

React • JavaScript • HTML • CSS

Backend:

Java • Spring • Python • SQL •

MongoDB • REST

Infrastructure | DevOps:

Linux • Docker • Git • AWS

### NON-TECHNICAL

Languages:

German (native) • English (fluent) •

Spanish (basic)

Soft-Skills:

Communication • Time management

## SCHOLARSHIPS

### DEUTSCHLANDSTIPENDIUM

Scholarship for high-achieving and committed students

### RWTH AACHEN

Oct 2022 - Present

### UNIVERSITY OF WUPPERTAL

Oct 2019 - Mar 2022

- extended in Oct 2020 Oct 2021

## EXPERIENCE

### TEQYARD GMBH | WORKING STUDENT - SOFTWARE ENGINEERING

Sep 2022 - Present | Remote

- implemented a data-driven approach to detect pauses in vehicle data using **Python**
- achieved the automated analysis of 200.000+ vehicles each month by implementing a machine learning pipeline on **AWS**

### UNIVERSITY OF WUPPERTAL | STUDENT ASSISTANT

#### CHAIR OF IT-SECURITY AND CRYPTOGRAPHY

Feb 2021 – Jan 2022 | Wuppertal, Germany

- assisted the researchers with the extension of an OpenSSL fork to prevent replay attacks on 0-RTT sessions when using TLS

### COROPLAST FRITZ MÜLLER GMBH CO. KG | WORKING STUDENT

Feb 2021 – Jan 2022 | Wuppertal, Germany

- automated various business processes by writing **Python** and **Powershell** scripts
- digitalized a process for in-house restaurant orders within the company by implementing an application with the low-code platform Microsoft Power Apps

## SOFTWARE PROJECTS

### LEARNING MANAGEMENT SYSTEM DASHBOARD

- built a dashboard in **React** to display learning management analytics for students and lecturers
- this university project was done in a group of five students using **agile** development methods

### SORTING ALGORITHM VISUALIZER

- built a web application in **React** to visualize how different sorting algorithms work on data
- implemented Bubblesort, Insertion Sort, Selection Sort, Mergesort, Quicksort and Heapsort

### ONLINE CHESS GAME

- built and deployed a full-stack application to play the game of chess online against a friend
- frontend is built as a **React** single page application
- backend is built with **Java** and **Spring** and allows clients to connect using the **Websocket** protocol