



# MD AKIB HASAN

📍 TROISDORF, NRW, GERMANY    📞 017664369076    [PERSONAL WEBSITE](#)

## 📌 DETAILS 📌

Troisdorf, Germany  
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[ahratul740@gmail.com](mailto:ahratul740@gmail.com)

## 📌 LINKS 📌

[LinkedIn](#)  
[GitHub](#)

## 📌 SKILLS 📌

Computer Hardware

Technical Support

Cloud-Based System  
Management

IT Ticketing Process  
Optimization

System Auditing and  
Vulnerability  
Management

IT Documentation  
Management

Agile Methodologies

Cisco Certified

Windows Server

Firewalls, VMware

Microsoft Office

## 📌 LANGUAGES 📌

English

German

## 👤 PROFILE

I am an experienced IT professional with over 5 years of diverse experience in IT support, IT administration, network engineering, DevOps, and backend development. I am currently pursuing a Master's in Communication System and Networking at Technische Hochschule Köln, with one course remaining to complete. I am proficient in English and at an intermediate level in German. My expertise includes solving complex problems, network configuration, NAS, Linux, SOPHOS Firewall, SOPHOS Access Points, and Cisco devices. I am seeking a full-time position where I can leverage my skills and continue to grow professionally.

## 📁 EMPLOYMENT HISTORY

### Working Student IT Administrator at REHUB digitale Planer, Köln.

January 2023 — Ongoing

- Supported and maintained all company data and technological infrastructure for both international and nationwide locations.
- Upgraded, repaired, and configured computers, application software, servers, and various other peripherals.
- Provided end-user and remote support and technical assistance for server and client computers, enterprise applications, telecommunication systems, network components, etc.
- Provide initial response and manage problem resolution process for outages and problems.
- Supports server, network, and desktop-based software and applications.
- Provides day-to-day technical support to employee's desktop systems software & hardware.
- Highly developed verbal and written communications
- Demonstrated knowledge of TCP/IP networking and the OSI model

### Master's Thesis Student at Fraunhofer Institute for Production Technology IPT, Aachen.

April 2023 — October 2023

- Developed and successfully implemented a novel cyber-attack detection system utilizing Long Short-Term Memory (LSTM) neural networks in conjunction with side sensor data from CNC machines.
- Demonstrated a deep understanding of cybersecurity principles and the ability to apply cutting-edge machine-learning techniques to enhance the security of critical industrial systems.

### **Working Student Software Developer at Resolve Biosciences GMBH, Monheim.**

November 2022 — February 2023

- In Apache Airflow, are defined as Directed Acyclic Graphs (DAGs), where nodes represent tasks and edges represent dependencies between tasks.
- Tasks are instances of operators. You define them within a DAG, and they represent the individual units of work.
- Utilize Jinja templating and macros to parameterize your DAGs, making them more flexible.
- Proven track record with testing, editing, and debugging web apps.

### **Working Student Software Developer at xarvio® Digital Farming Solutions, Köln.**

January 2022 — August 2022

- Proficient in creating high-volume microservices and APIs.
- Expertise in Django, Python, and Python application frameworks like Django REST, Flask, and Fast API
- Proficiency with database frameworks like PostgreSQL.
- Working with serverless Amazon Web Services (AWS) technologies Like Lambda.
- Proven track record with testing, editing, and debugging web apps.

### **Internship in Data Analyst at xarvio® Digital Farming Solutions, Köln.**

October 2021 — December 2021

- Cleaned unstructured data for data analysis and Confidential tasks and pipelines.
- Analyzed over 22 years of data (2000-2022) to make a Dose Response model.
- Used Python and the Soil API to get raw data and reprocessed it for a data science task.
- Used Natural Language Processing ML libraries to train a Robust Regression model for nonlinear data analysis.



## **EDUCATION**

### **Masters in Communication System and Networking, Technische Hochschule Köln, Köln**

April 2020 — Present

- Next Generation of Networking, Cybersecurity
- Large Cloud based Software Development

### **Bachelor of Science in Electronic and Electrical Engineering, American International University-Bangladesh, Dhaka, Bangladesh**

May 2015 — February 2020

- Digital Design with System Verilog, VHDL and FPGAs
- Microwave Engineering



## **REFERENCES**

**Dr. Holger Hoffmann from xarvio® Digital Farming Solutions, Manager Teams Weed Management & Crop Modelling.**

holger.hoffmann@xarvio.com ,

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**Lars Leyendecker from Research Associate and Doctoral Student at Fraunhofer IPT and RWTH Aachen.**

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## **PUBLICATION**

**Electrical and Signal Processing Techniques, ICREST, IEEE, Dhaka, Bangladesh**

November 2018 — January 2019

"Unmanned Aerial Vehicle for Cleaning the High-Rise Buildings." . [Link](#)