

Md Hazrat Ali

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SUMMARY

Highly motivated master's student with a strong background in MERN stack development with in-depth knowledge and practical experience. I am dedicated to staying updated with the latest industry trends and technologies, and I am seeking a challenging position in a dynamic organization where I can utilize my creativity and problem-solving abilities to deliver exceptional user experiences and drive business growth.

EXPERIENCE

IT Support Engineer (Freelancing)

January 2022 – December 2022, Frankfurt, Germany

Canopus IT Solutions GmbH

- Installing and configuring computer hardware, software, systems, networks, printers, and scanners.
- Cisco router, Cisco phone, switches, Firewall, LAN/WLAN
- Solved troubleshooting for network connectivity (DNS, DHCP, Gateway, Subnet Mask)
- Providing technical support to the end client
- Performing network maintenance in data center

Research Assistant

July 2018 – December 2019, Rajshahi, Bangladesh

University of Rajshahi

- Assisting students with Laboratory (Electronics, Networking and Communications) work
- Evaluating lab reports and student's performance
- Skills: Research · Matlab

IT Support Engineer

January 2020 – May 2020, Chittagong, Bangladesh

Royal Cement Limited

- Install and configure computer hardware, software, networks, and applications.
- Continuously monitor and maintain systems and networks.
- Respond to technical support calls from other staff members or clients and communicate how to resolve issues.
- Diagnose and troubleshoot system and network problems, software faults or hardware complications.

RESEARCH

Performance Analysis of OMP Algorithm Implemented Millimeter Wave Massive MIMO Wireless Communication System (MATLAB)

- Developed a simulation model for OMP algorithm implemented millimeter wave Massive MIMO wireless Communication system. synthetically generated binary data in a hostile fading channel,
- It was MATLAB based simulation study that the implementation of higher order 16-QAM with SPC (3,2) Channel coding and Cholesky decomposition signal detection schemes provide satisfactory result for such a OMP algorithm implemented mm Wave massive MIMO wireless communication system.

PROJECTS

Doctors Portal (Full Stack)

[Live site](#)

A (full stack & responsive) Doctors appointment taking and patient management website.

Technologies Used: React JS || Express JS || NodeJS || Tailwind || Firebase Authentication and JWT based authorization. || MongoDB || React Router || Vs Code

❖ **Racing Cars (Full Stack)**

[Live Site](#)

It is a platform for reselling cars. You can buy and sell your used cars here. Technologies Used: React JS || Express JS || NodeJS || Tailwind CSS || Firebase Authentication and JWT based authorization. || MongoDB || React Router || Vs Code

❖ **Home Fitness Store (Full Stack)**

[Live Site](#)

It is a gym equipment management website. You can manage different items of gym on this website. Technologies Used: React JS || React-bootstrap || Express JS || NodeJS || Firebase Authentication and JWT based authorization. || MongoDB || React Router || Axios || Vs Code

❖ **Hospital Bed Management System** **Technische Hochschule Köln**

- Successfully deployed a web application designed for hospital bed booking, leveraging the Flask framework and SQLAlchemy library in Python.
- Configured and deployed the web application on the Google Cloud Platform (GCP), utilizing its robust infrastructure and scalability features.

❖ **Cologne House Rent Prediction Using Machine Learning** **Technische Hochschule Köln**

data analysis to identify the optimal machine learning (ML) model for accurately estimating rent. Utilized Python, NumPy, Pandas, and SciKit-Learn to develop and implement the ML models for rent estimation.

EDUCATION

Master of Science (MS)

Focus: Communication Systems and Networks • Technische Hochschule Köln • Köln, Germany • Present

Master of Science (MS)

Focus: Electrical and Electronic Engineering • University of Rajshahi • Rajshahi, Bangladesh • 2019

Bachelor of Engineering (BE)

Focus: Applied Physics and Electronic Engineering • • University of Rajshahi • Rajshahi, Bangladesh • 2017

KNOWLEDGE & SKILLS

Programming Skills: JavaScript, Typescript, React, ES6, HTML5, CSS3, Bootstrap, Tailwind, DaisyUI, Figma, Nodejs, ExpressJs, MATLAB, Python programming.

Tools used: Visual Studio, GitHub, Jupiter Notebook, Cisco Packet Tracer, Wireshark, Microsoft Office 365,

Languages: English: Fluent, German: (A2), Bengali: Fluent (Mother Tongue)

CERTIFICATION

Web Development: Project of Bangladesh Computer Council (BCC). July 2017-December 2017

Complete Web Development: Programming Hero (Bangladesh). July 2022-December 2022

Completion of React: ReDI School NRW August 2022-December 2022

Cloud Computing (AZ-900) : ReDI School NRW March 2023-June 2023

AWS Cloud Technical Essentials from Coursera

AWS Certified Solutions Architect – Associate from Coursera