



# Istiyak H. Siddiquee

RA @ UniKlinikum, Magdeburg, DE.

- 2 July, 1992
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## Tech Skills

- Java Spring Jasper Hibernate
- Python django Golang gin-gonic
- NodeJS NestJS Angular MongoDB
- PostgreSQL MySQL SQLServer TSQL
- TypeScript UnitTesting JUnit TestNG
- Jasmine Mocha SonarQube
- Docker Kubernetes Helm istio
- Terraform Ansible Vagrant Bash
- aws GKE DigitalOcean Jenkins
- Maven gradle GitLab Git Gatling
- Pipeline-as-code Infrastructure-as-code
- DeepLearning NLP XAI ResponsibleAI
- LaTeX Tensorflow PyTorch MLFlow

## Organizational Experiences

- President  
United Cultural Alliance, SUST  
Nov '13 – Feb '14
- General Secretary  
SUST Science Arena  
Dec '12 – Feb '14
- Sylhet Divisional Coordinator  
Science Popularizing Society, Bangladesh  
Jan '13 – Dec '14

## Professional Experiences

- Jan '21 – Present **Wissenschaftliche Mitarbeiter** Universitätsklinikum Magdeburg  
In charge of building and maintaining a MEAN stack server, related to a PhD study.
- Dec '20 **Python Developer** ReSale GmbH  
Built a high performant, memory efficient, multi-threaded framework for web scrapers, completely in Python
- Nov '17 – April '18 **DevOps/Full-Stack Developer** Orion Informatics Ltd.  
Developed and maintained web server in Typescript, Angular, Java, MSSQLServer, etc. Developed a CI pipeline with Docker, Groovy, TestNG, SonarQube, and Jenkins pipeline as code. Was responsible for Docker and Kubernetes administration on bare metal, Digital Ocean, and GKE.
- Nov '14 – Nov '17 **Back-End Developer** BizMotion Ltd.  
Designed, developed, maintained a business automation software in Java Spring, with Hibernate, PostgreSQL, etc.

## Recent Academic Projects

- Dec '20 – Present **Explainable and Fair Recommendation in Research**  
On-going scientific team project to investigate the fairness issues of recommendations engines and to implement a fair recommender system for recommending research articles using graph based algorithms.
- Aug '20 – Present **Medical Image Registration using Deep Learning**  
On-going scientific team project for developing a novel medical image (MRI) registration process using Deep Learning in PyTorch
- Dec '20 – Present **Bench-marking Attention Network in Stock Prediction**  
On-going scientific team project where we are bench-marking the performance of attention networks in predicting stock prices.
- June '20 – Aug '20 **Genre Detection of Gutenberg Corpus**  
In this team project, we extracted, using python, a custom feature vector based on writing style from a highly imbalanced dataset of 19th century fictional literature and compared the performances of multiple algorithms in determining the books' genre.

## Publications

- May '21 **Abstract - A Comparative Study of Deep Learning Based Deformable Image Registration Techniques**  
*ISMRM 2021*
- June '21 **Book Contribution - Advances in Streamflow Forecasting — from Traditional to Modern Approaches**  
*Elsevier Limited, Oxford, UK.*

## Educational Background

- Oct '19 – Present **M.Sc. in Data and Knowledge Engineering**  
Otto-von-Guericke University of Magdeburg, Deutschland.  
Running CGPA - 1.7
- Feb '10 – Nov '14 **B.Sc. (Eng.) in Computer Science and Engineering**  
Shahjalal University of Science and Technology  
Sylhet, Bangladesh  
CGPA - 3.22