



Istiyak H. Siddiquee

RA @ UniKlinikum, Magdeburg, DE.

JG-Nathusius-Ring 8, 39106 Magdeburg.

+49 176 37133755

istiyaksiddiquee@gmail.com

<http://istiyaksiddiquee.xyz>

<https://github.com/istiyaksiddiquee>

<https://www.linkedin.com/in/istiyaksiddiquee>

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