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