



Istiyak H. Siddiquee

RA @ UniKlinikum, Magdeburg, DE.

- 2 July, 1992
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Tech Skills

- Java Spring Jasper Hibernate
- Python django Tensorflow PyTorch
- NodeJS NestJS Angular MongoDB
- Golang gin-gonic PostgreSQL MySQL
- TypeScript Unit Testing JUnit TestNG
- Jasmine Mocha SonarQube
- Docker Kubernetes Helm istio
- Terraform Ansible Bash aws GKE
- DigitalOcean Jenkins Pipeline as code
- Maven gradle GitLab Git Gatling
- LaTeX

Organizational Experience

- 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