



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 Spark
- 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.
- 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

- April '21 – Present **Evolution of Weekly Average Sentiment due to COVID-19**
A seminar project to understand the changing nature of sentiment due to COVID-19
- April '21 – Present **NL2SQL and Table Summarization**
Scientific team project on natural language to SQL and table summarization
- April '21 – Present **Automating the deployment in GCP**
A team project for automating the deployment to GCP using Terraform, Ansible, Docker
- May '21 – June '21 **COVID and Avocado - An ML project in GCP**
A course project for understanding the usage of GCP in the field of ML
- Dec '20 – July '21 **Fair Recommendation in Research**
Scientific team project to investigate the fairness issues of recommendations engines.
- Aug '20 – March '21 **Medical Image Registration using Deep Learning**
Scientific team project MRI image registration using DL.
- June '20 – Aug '20 **Genre Detection of Gutenberg Corpus**
Genre detection using linguistic features of the highly imbalanced dataset of 19th century fictional literature.

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