To whom it may concern,

This is Mohammad Istiyak Hossain Siddiquee, a 3rd-semester student of the M.Sc. in Data and Knowledge Engineering (DKE) program of OvGU and I am exhilarated by the notion of working as a werkstudent while studying to complete my MSc. degree.

To brief you about myself, I am from Bangladesh. Before coming to Magdeburg, I worked for around three and a half years in my country as a software developer. As part of my job, I worked in different positions ranging from backend server developer to DevOps (specializing in Kubernetes). During my first job, I worked as a Backend Java developer where I gained experience in Java, Spring framework, PostgreSQL, unit testing, integration testing, etc. Before starting my second job, I started to learn containerization technologies like Docker, rkt, etc. and container orchestration frameworks like Kubernetes. In my second job, things went a step higher and I was tasked to be a DevOps and Kubernetes Administrator there. At the same time, I was also working on Blockchain, Java, NodeJs, SQL Server, T-SQL, Angular, etc. as our company believed in technology-agnostic full-stack developers. Thus I acquired experience in all the stages of the software development life-cycle.

However, after leaving Bangladesh for higher studies, as I kept learning, I am now comfortable in Java, Python, NodeJs, golang, Angular, Kafka, along with 'Infrastructure-as-code' tools like Jenkins, Terraform, Ansible, and containerization tools like Docker, Kubernetes, Helm, istio, ELK stack etc.

Furthermore, since I got into OvGU to pursue a career in Data Science, I have completed two projects as part of my course-work. Currently, I am working on a scientific team project on '3D Medical Image Registration using Deep Learning'. Also, I have started working on a project in FinTech innovations that will be done using Blockchain, Deep Learning, and Kafka. Furthermore, recently I have completed a seminar on Kubernetes. Because of these projects and courses, I have an understanding of machine learning, deep learning, neural networks, CNN, RNN, attention mechanisms, transformers, etc. and a familiarity with Tensorflow, PyTorch, MLFlow, etc. frameworks and libraries.

Apart from my professional and educational career, I have always been active in social and organizational activities as well. During my undergraduate studies, I worked for four years in SUST Science Arena, the only science organization of my university. As recognition of my efforts there, I was promoted to be the General Secretary, the second most important position of the organization. Furthermore, I was the President of a cultural alliance of fourteen like-minded organizations of my university. Also, I was an adviser to Anushandhitshu Biggan Chakra, a national level science organization, and the divisional coordinator for Science Popularizing Society of Bangladesh (SPSB), another national-level science organization of my country.

As can be seen in this testimony and in my CV, I am technology agnostic, I am willing and eager to work with any technology for which the market has a demand. As I am a relatively fast learner and can adapt to using different organization-specific applications and tools quickly, the kick-off time I require to get started in a new project is relatively less. Furthermore, dealing with new technologies demands a positive attitude in handling pressure and challenges, which I have acquired from my experiences with voluntary organizations, and because of those experiences, I am particularly well-known for my amiable behavior and my participation as a team-player.

Therefore, I am confident that I will be able to contribute to your esteemed organization given the opportunity, and I shall faithfully execute all the tasks that I shall be assigned on to the best of my ability by exploiting my skill-sets to its fullest.

Thank you for your time and consideration.

Yours Sincerely, Mohammad Istiyak Hossain Siddiquee



39106, Magdeburg. +49 176 37133755 mohammad.siddiquee@st.ovgu.de http://istiyaksiddiquee.github.io

Mohammad Istiyak Hossain Siddiquee

Recent Academic Projects

Fair Recommendations in Research (December 2020 - present)

An on-going scientific team project to investigate the fairness issues of recommendations engines and to implement a fair recommender system using graph based algorithms.

Medical Image Registration using Deep Learning (August 2020 - present)

This is an on-going scientific team project where the task is to research and develop a novel medical image (MRI) registration process using Deep Learning in PyTorch.

Benchmarking Attention Networks in Stock Prediction (December 2020 - present)

This is an on-going scientific team project where we are benchmarking the performance of attention networks in predicting stock prices.

Genre Detection of 19th Century Fictional Literature using Linguistic Features (June 2020)

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 classifying the books.

Professional Experiences

DevOps/Full-Stack Developer at Orion Informatics Limited

From November 2017 to April 2018 – 4 Months

Project NuArca is a BlockChain (IBM HyperLedger) project for automated vote casting of shareholders in stock market. Here, as part of the core team, I worked as a DevOps/Full-Stack developer. I have gathered development experience in TypeScript and Angular 4 for frontend, Java (Spring), Jasper Reporting, Junit for backend, and T-SQL, SQL Server 2016 for the database.

As **DevOps**, I was tasked to develop a system to automate the build of codebase with Docker, Gradle, and Jenkins (Pipeline DSL), along with TestNG, SonarQube. This was a solo project.

Project mCash Mobile Wallet is an R&D project for centralized mobile banking for Bangladeshi market. I was the Backend Java Developer as well as Docker and Kubernetes Administrator of this project. Here, in a brief span of time, I had the responsibility to deploy self-maintained Kubernetes cluster on bare metal, Digital Ocean, and on Google Kubernetes Engine.

Back-End Java Developer at BizMotion Limited

From November 2014 to November 2017 - 3 Years

Project BizPharma is a business automation software built exclusively for the pharma industry of Bangladesh. Being there from the very beginning of the product life cycle, as a back-end Java developer, I took part in designing and developing a massive ERP server in Spring and Hibernate framework from absolute scratch, including database (PostgreSQL) design, service/component design, security design, and server maintenance.

Technical Skills

Docker

- Docker, Docker-Compose, Kubernetes, Helm, Rancher, Openshift, Istio

Infrastructure

- Terraform, Ansible
- Blockchain, Kafka, ELK Stack
- Linux, Bash, Tomcat, jboss, vmware
- aws, Google Kubernetes Engine, Digital Ocean, IBM Bluemix Kubernetes

Deployment

- Jenkins, Pipeline CI/CD, GitLab, Maven, Gradle, Apache SVN, Git, Gatling Test suite

Language and Frameworks

- Java, Python, Javascript, golang, R, C, Arduino
- Spring, Jersey REST, Hibernate, Jasper, NodeJS, NestJS, Django, Gin-Gonic
- PosgreSQL, MySQL, SQLite, MS SQL Server, T-SQL, MongoDb, Cassandra
- Angular9, Typescript, AJAX, jQuery
- JUnit, TestNG, Jasmine Mocha, Istanbul, SonarQube
- TensorFlow, PyTorch, MLFlow

Project History

Java

- Library management using Jersey REST Services
- Download Manager and Website Grabber
- Contact manager and viewer
- Multi-tabbed notepad
- Web Browser
- Desktop gadget for searching contacts and other system operations.

Android

- The Hive, a GRE vocabulary app with highest number of words
- Personal Secretary, an app to attend calls and SMS on behalf of client
- Automatic Call Recorder
- Bulk SMS sending app.

Database

- Nikhoj, a website, built using PHP, MySQL, HTML, CSS, for the identification of missing/dead persons, found by charitable organizations.

Javascript and related

- A blog service for personal use using MEAN stack
- An Al driven, location based flat recommendation system with customizable criteria set
- Khoj, a location based apartment recommendation system with a set of 15 criteria for tuning the result set.

Arduino

- A mini-bot that senses obstacles in its path and changes direction automatically.

Educational Qualifications

M.Sc. in Data and Knowledge Engineering (Data Science)

Otto-von-Guericke University Magdeburg, Germany. CGPA (running) - 2.0

B.Sc. (Eng.) in Computer Science & Engineering,

Shahjalal University of Science & Technology, Sylhet.

Year of Passing: 2014 CGPA: 3.22 (scale of 4.00)

Higher Secondary Certificate (HSC)

Noakhali Govt. College, Noakhali.

Year of Passing: 2009 GPA: 5.00 (scale of 5.00)

Secondary School Certificate (SSC)

Noakhali Zilla School, Noakhali.

Year of Passing: 2007, GPA: 5.00 (scale of 5.00)

Communication

Achieved 7.5 in IELTS (3rd May 2019)

Score Breakdown: Listening 9, Speaking 7, Writing 6, Reading 8

Organizational Experiences

Skills

President, United Cultural Alliance, an alliance of 14 prominent organizations of SUST From **November 2013** to **February 2014**

General Secretary, SUST Science Arena From **December 2012** to **February 2014**

Sylhet Divisional Coordinator, Science Popularizing Society, Bangladesh (SPSB)

From January 2013 to December 2014

References

Mahmudul Haque Fahim

Project Manager, BizMotion Limited mahmudul.fahim@gmail.com

M. Jahirul Islam, PhD., PEng.

Professor, Dept. Of CSE, SUST.

jahir-cse@sust.edu