

Syed Salauddin Mohammad Tariq

✉ ssmtariq@umich.edu
☎ +15864806118
📧 tariqnotes.blogspot.com

in LinkedIn/ssmtariq
🐙 GitHub/ssmtariq
🔗 Google-Scholar



WORK EXPERIENCE

Teaching Assistant at U of M Dearborn

[Aug 2022 to Present]

Responsibilities: Instruct and grade freshmen and sophomore class courses

Research Assistant at U of M Dearborn

[Jan 2022 to Present]

Responsibilities: Performing system-related research involving microservice architecture

Software Engineer at BJIT Limited

[Oct 2016 to Dec 2021]

Responsibilities:

- Developed and Configured REST APIs
- Ensured code quality by integrating SonarQube
- Written unit tests, cucumber/karate scripts, prepared stubs, and conducted integration & load test
- Configured load balancing and proxy
- Designed landing page, custom shopping cart, and localized application
- Deployed APIs on stage and load server
- Monitored cache, CPU, heap, request/response, etc. of APIs using Grafana, Prometheus
- Documented API specifications and manuals
- Designed data flow, class, and sequence diagrams
- Negotiated project requirements by communicating with offshore clients and created tickets for tasks
- Conducted daily huddle grooming and retrospective meetings

Software Engineer at BRAC IT Services Limited

[May 2015 to Oct 2016]

Responsibilities:

- Developed ERP web Application and fixed bugs
- Designed business reports using jasper iReport and written optimized SQL queries for them
- Designed custom tag libraries with java TagLib
- Designed dynamic, responsive UI

LATEST RESEARCH

- **MicroProf:** Code-level Attribution of Unnecessary Data Transfer in Microservice Applications. **ACM-TACO '23.**
- **UAV-Assisted Event Detection for Ground-Vehicles**
Achieved *Honorable Mention-Originality* award at the 2022 CPS IoT week Competition.

EDUCATION

MS. in CIS [Jan 2022 to **PRESENT**]

University of Michigan Dearborn; CGPA: **4.0**

B.Sc. in Computer Science and Engineering

Patuakhali Science and Technology University
CGPA: **3.376**; GPA **3.60** in Final 60 credit hr.

TECHNICAL SKILLS

PROFICIENT

Language

Java Groovy

Framework

Spring Boot Grails

Quality

JUnit MUnit
Karate Mockito

DevOps

Docker Nginx
Kibana

Database

MySQL Postgre

Web UI Design

GSP & JSP Bootstrap

Project management

JIRA Confluence
Astah Git

Miscellaneous

Maven HTML
XQuery CSS

BASIC EXPERIENCE

JavaScript

Mule ESB

JMeter
Mockserver

Kubernetes Jenkins
SonarQube Grafana

Elasticsearch Mongo

JSTL JQuery

Gitpub SVN
Swagger Redoc

RabbitMQ MAT
Gradle

SOFTWARE DEVELOPMENT PROJECTS

Middleware APIs

- **API-Registry:** Common Authentication & Authorization API for middleware APIs serving 2500 QPS
- **Affiliate Store APIs:** Developed Item, Product, Order, MainMenu, Navigation, and ShopBiz e-commerce REST APIs using microservice for a Japanese giant company

Enterprise Resource Planning (ERP)

- **sbiCloud:** Developed a vast ERP application deployed in 17 countries, that automated the activities of the world's largest NGO BRAC. Contributed to the following modules
 - ✓ Customer ✓ Procurement ✓ Inventory
 - ✓ Budget ✓ Donor ✓ HR