

Samidhya Sarker

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Links:



Education

- **Bangladesh University of Engineering and Technology(BUET)** Dhaka, Bangladesh
M.Sc. Engineering in CSE 2018 -
 - Postgraduate Thesis: Detection and Recognition of Asymmetric Cartoon Characters in Visual Media
 - Advisor: Abu Wasif
- **Bangladesh University of Engineering and Technology(BUET)** Dhaka, Bangladesh
B.Sc. Engineering in CSE 2011 - 2017
 - Undergraduate Thesis: Efficient Video Transcoding in IaaS Cloud by Using Approximation of Bin-Packing Algorithm in Scheduling.
 - Advisor: Dr. S. M. Farhad

Work Experience

- **Bangladesh Computer Council (BCC)** ICT Division, Dhaka, Bangladesh
Assistant Programmer, CA Operations and Security Dec. 2022 -
 - Currently working as a developer in a Government Autonomous Institution.
 - Working as a frontend (React) developer in Quickpass ios application.
 - Developed the facematching engine required for class 2 certificate verification using Machine learning and neural networks and Python frameworks.
 - Responsible for DevOps of BCC CA internal servers and database servers.
- **BGD e-Gov CIRT** BCC, ICT Division, Dhaka, Bangladesh
Quality Assurance (e-Services) Dec. 2019 - Dec. 2022
 - Worked as a Software developer/tester in a government project under the umbrella of Bangladesh Computer Council (ICT division), Government of Bangladesh.
 - I worked as a consultant in the following development teams:
 1. BNDA (Bangladesh National Digital Architecture) Team
 2. BCC-CA (BCC Certificate Authority) Dev Team
 3. GRP (Government Resource Planning) BCC Team
 4. CIRT (Computer Incidence Response Team)
 - General responsibilities:
 - * Perform requirement analysis, software specification development, and design software architectures(database, streams etc).
 - * Development of web application frontends using Angular framework.
 - * Development of full stack web application using Django/Spring MVC framework.

- * Development of web application APIs using django-REST and flask.
- * Performing integration testing, load testing in for web applications.
- * Provide training to government employees about developed web applications .

• Concitus

Software Engineer

Dhaka, Bangladesh

Oct. 2018 - April. 2019

- Creating healthcare related web applications Using Python, Django, PostgreSQL, Celery, Redis and VueJS.
- Creating Content Management Systems using Django-Wagtail.

Skills

- Software Engineering
 - **Languages:** Python, Java, Javascript, C++, C
 - **Frameworks:** Django(/REST), FastAPI, Angular, React Native, Celery, Spring MVC/Boot
 - **Machine Learning/Data Science:** Pytorch, Numpy, Pandas, SciPy, Tensorflow
 - **Database:** MySQL, PostgreSQL, Redis, SQLite, CockroachDB
 - **Mark up/down:** L^AT_EX, HTML, Markdown, reStructuredText
 - **Func/log prog:** Clojure, Haskell, Prolog
 - **Testing:** JMeter, Gatling, Cypress, Playright/PuppeteerJS
 - **Security Testing:** Burpsuite, NMap
 - **Other:** Git/Mercurial, Vim/Intellij, Postman, Arduino, BeautifulSoup, Scrapy, Selenium, jQuery, Ajax
- Systems Operations / DevOps
 - **Deployment:** nGinx/Apache/Tomcat Server administration, Kubernetes/Docker/Dokku/Heroku Deployment Virtualbox/VMware/KVM Deployment
 - Load balancing using Haproxy, nGinx
 - **Unix/Linux:** Distros: Debian(Ubuntu), Centos(Fedora), etc.
 - Shell Scripting, Ansible

Certification

• Level-2 Fundamental Information Technology Engineer(ITFE)

Full Passer

ITPEC, JICA, BCC

October 2018

Projects

- **It-Connect:** A helpdesk for aiding ITES development for foreign countries. It is a web system developed under the supervision of WB funded LICT-ITES project. I designed and developed the frontend of UK and Netherland portal using Angular and parts of the monolithic backend using Spring MVC.
[<https://bhcl.itconnect.gov.bd>]

- **GRP:** Government Resource Planning application of Government of Bangladesh. I worked at the frontend of the Payment submodule of the HRM module which is responsible for disbursing the salary of GoB employees. [<https://grp.gov.bd>]
- **HIS:** Health Information System application of BCC. I designed and developed the web application using Django, MySQL. [<https://his.bcc.gov.bd>]
- **e-Recruitment:** Recruitment system of BCC. I performed, load/stress testing, automated UI functionality testing, integration testing and server administration. [<https://erecruitment.bcc.gov.bd>]
- **Boithok:** Video conferencing system of ICTD. I performed, load/stress testing, functionality testing of the system and the android application. [<https://vc.bcc.gov.bd>]
- **Covid19Tracker:** Covid19 Tracker application developed by BNDA. I developed the analytics dashboard using d3js. [<http://covid19tracker.gov.bd>]
- **FPS:** Foodgrain Procurement System of Food Department of GoB. I performed load/stress testing, UI testing. [<http://fps.dgfood.gov.bd>]

Communication Skills

- **Bangla:** Native Language
- **English:** Full Professional Proficiency
- **German:** Limited Working Proficiency

Co-curricular activities

- 16 times blood donor for Badhan.
- Volunteer, BUET CSE Festival 2011, 2013, 2015 Inter University Project Show (IUPS)
- Contributor, Bengali Language Wikipedia [<https://bn.wikipedia.org/wiki/User:Desertsnip87>]

Reference

- Abu Wasif
Assistant Professor
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