MALLIK HASSAN

sadi.research@gmail.com C:+1 506 292 5853

Github: https://github.com/SadiHassan
In: www.linkedin.com/in/mallikhassan

EDUCATION
1. MS in Computer Science – University of New Brunswick (UNB), Canada.
2. BS in Computer Science and Engineering – Jahangirnagar University, Bangladesh.
3. MBA – University of Dhaka, Bangladesh.

EXPERIENCES

1. Service New Brunswick (SNB) - *Senior Programmer Analyst*   Fredericton, NB, Canada, Apr 2019 – Present
   a. Improved correctness of Property Assessment Service (PAS) functionality to assess customer property using vendor API.
   b. Restructuring legacy code base to implement feature requests by stakeholders.

2. Resson Aerospace Ltd. - ***Data Scientist***   Fredericton, NB, Canada, Apr 2016 – Apr 2019
   a. **Improved efficiency by (around) 5 times of image processing algorithm** that produces agricultural health report. Coded and verified such improvements which achieved successful client satisfaction.
   b. Developed, coded and tested a system from scratch that verifies reporting outputs as well as alerts for potential anomalies to respective stakeholders.
   c. Contributed in solutions for everyday challenges relating to object detection, classification and data analysis. This also includes coding of small, ad-hoc solutions and testing them.

4. Samsung R&D Institute - *Sr. Software Engineer*   Dhaka, Bangladesh, Mar 2013 – Aug 2015
   a. Built R&D prototypes for proposed Samsung product (**NLP Clustering with Topic Modeling project**).
   b. Generated accepted ideas for showcasing in annual global Samsung conferences.
   c. Fixed software bugs of Samsung feature phone for the MEA region.
   d. Lead and managed a study group to develop skills and knowledge for potential future projects.
   e. Placed myself in '**Advanced Level**' class (a criterion set by Samsung) in the Software Capability Test.

5. ServicEngine Ltd - *Software Engineer*   Dhaka, Bangladesh, Aug 2012 – Feb 2013
   a. Coded functionalities for web scraping, data aggregation, cleaning and presentation.
   b. Solved problems relating to requirement understanding and defining the scope of projects by communicating with clients.

6. **eBizzSol Ltd -** *Software Engineer (Web Apps)*   Dhaka, Bangladesh, Jan 2012 – Jul 2012
   a. Developed an online education system for training-service organizations of local market.
   b. Successfully communicated with clients for issues and bug reporting.

ACHIEVEMENTS

1. **UNB-CS Programming Contest** (Winter 2016) – **1st Place** among contemporary MS Students (around 30 of them) in Computer Science Department at UNB.
2. **Samsung S-TopCoder (SOTONG) –** Ranked **Globally 64th** place in a programming competition arranged by Samsung Electronics where employees (around 1500) from all R&D centers of Samsung across the world participated.
3. **Best Idea Acceptance –** One of my ideas (Gaming idea – **Pass the Bomb!**) got accepted for showcasing in year end R&D conference of Samsung.
4. Completed course titled **Algorithm Design and Analysis (Part-1)** by **Stanford University** through Coursera Online.
5. **Codeforces** profile: http://codeforces.com/profile/late_riser (Best Rating-1563)
6. **Kaggle Machine Learning Competetion –** participated in various Kaggle competitions to be familiar with data science skills.

RESEARCH

1. Graduate Academic Assistant (GAA) at the Center for Advanced Studies, Atlantic (CASA), UNB, Fredericton, Canada (Sept 2015 – April 2016): Accepted poster titled "Region Based Finalization" relating to Java Virtual Machine.
2. "Recovering Controlling points of Bézier Curve for Image Analysis" – undergrad research project in the domain of Computer Graphics which was published in departmental annual journal.

FAMILIAR TECH-STACK

1. Languages / Libraries: C/C++, Java, **Python, numpy**, **pandas**, **NLTK**, **Pytorch,** Shell Script, SQL.
2. Concepts: **Machine Learning, NLP, Deep Learning**, **Computer Vision, Data-Structure and Algorithms**, Test Driven Development, Agile, MVC.
3. Tools / Tech / OS: Anaconda, Eclipse, SublimeText, git, SVN, Jira, QGIS, Gimp, Web Services (REST, JSON)

REFERENCES   (Available upon request)