Md Nuruddin Pathan

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Education

Winter 2015 – Winter 2019 (expected)

BSc in Computer Science | *International Islamic University, Malaysia*
CGPA 3.62/4.00 (up to level 4 term 1, 1 term remaining)

Publication

2017

Tajwar, M. M., Pathan, M. N., Hussaini, L., and Abubakar, A. (2017). CPU Scheduling with a Round Robin Algorithm Based on an Effective Time Slice. *Journal of Information Processing System, Vol 13, (2017) No.4.*

Internships

Summer 2018 - Present

Schlumberger, Share Service Organization | *Kuala Lumpur, Malaysia*
Data Analyst Intern, DnA

Contributed on the design architecture and development of ELT solution to migrate 2TB of SSO on-premise SQL Server data to Azure Data Warehouse and created several SSIS packages to automate ETL processes. The SSIS packages are mostly written in C# with other tools to perform the designated task.

Teaching Assistant, Department of Computer Science, IIUM

Fall 2017-Present

CSC 1100 | Elements of Programming
Conducted 2 weekly tutorial classes for 2 hours each, demonstrating implementation of basic coding constructs in C++. Each class consisted of 30-40 students. Each week took one test which was consist of 10 marks, in total 6 tests were conducted.

Selected Projects

2017

Movie Recommendation Engine
Developed and evaluated a Used Based Collaborative filtering model (UBCF) system for recommending movies which was implemented with R language. The collaborative filtering approach is stronger than what a item-based recommender can provide as users might not be looking for direct substitutes to a movie they had just viewed or previously watched.

2016

Missing Value Imputation using Supervised Learning Algorithm
Compared effectiveness of Linear Regression, kNN & support vector Machine to predict missing values in variable sized dataset. The imputation from kNN gives near to accurate prediction than other two. The results are compared in terms of MAE, RMSE, RSE and Wilcoxon test. Datasets were collected from Kaggle website which were of around 4k rows. The coding part was done in both R and Microsoft Azure ML. For the Visualization we used Microsoft PowerBI tool.

2016

Food Ordering System
A Java application to order food based on the menu set inside the program. The database is built on MySQL to store and retrieve the information. A simple GUI is used to interact with the user. The system can be used for any normal boutique to order any menu.

Schlumberger-Private

Awards & Scholarships

2015-2018 **Dean's List** | *Department of Computer Science, IIUM*
Six Semesters

2017 **IIUM Code Jam** | *International Islamic University, Malaysia*
Champion – Team Tyros

It is an onsite programming competition held every year in IIUM. Around 10-12 teams participate from ICT and Engineering Kulliyah. The contest was 5 hours long consisting of 8 problems. The contest follows the same ACM ICPC rules.

2017 **Unicode Programming Competition** | *Monash University & School of UOW in INIT*
Participant

More than 50 teams from various universities participated. The contest had 3 rounds, 3 hours each, with increasing difficulty. This contest had been a different experience because like other contest this contest also had 9 questions but a shorter timespan to think for each problem rather than the usual 5-hour contest.

2016 **ACM ICPC Malaysia** | *Al Khwarizmi National Programming Competition*
Participant

A yearly competition between all the universities in Malaysia. Where the best competitive programming teams participate. Our team Muharram 1438 managed to solve 4 problems out of 9 problems.

Technical Skills

Languages C/C++, Python, Java, JavaScript, R
Frameworks & Libraries NumPy, Seaborn, Pandas, PowerBI

Deployment Git
OS Linux, Windows

Extra-curricular Activities

2015-2016 **Ummatic Festival** | *Islamic International University, Malaysia*
Winning Country

It is one-week cultural performance festival. Various country performs their cultural dance, drama, melodrama and singing to represent the culture their country.

Others

Citizenship **Bangladeshi**

Referees

References available upon request.