Md Nuruddin Pathan

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Education

Winter 2015 – Winter 2019

BSc in Computer Science | *International Islamic University, Malaysia*
CGPA 3.64/4.00
Highest GPA 4.00/4.00

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.*

Experience

June 2018 – January 2019

Schlumberger, Share Service Organization | ***Kuala Lumpur, Malaysia***
Data Analyst Intern, D&A

Contributed and actively worked on the design architecture and development of ELT solution to migrate 2TB of SSO D&A on-premise SQL Server data to **Azure Data Warehouse** by leveraging ADF. Created several **SSIS** packages to automate ETL processes. The SSIS packages are mostly written in **C#** with other tools to perform the designated task.

April 2019 – Present

Schlumberger, SSO D&A | ***Kuala Lumpur, Malaysia***
Data Engineer

- **Data integration** development by creating pipelines leveraging **SSIS** or and Azure Data Factory (ADF).
- **Data Automation** depending on the requirement from the Product Owner either using SSIS or **Alteryx workflows.** Collected the data from the source, developed the ETL flow afterward validated the data, did the UAT and deployed to the Production environment.
- **Data migration** (ongoing) from on-premises SQL Server Data Center to **Azure Data Warehouse (ADW),** build **ELT pipeline Framework** using Azure Data Factory (ADF) leveraging PolyBase feature with BI tools for faster performance of bulk load which is currently being used by the company.
- **Azure WebJob and Functions:** Build API to trigger Alteryx Workflows from Azure Data Factor using WebHook Activity that are written in **C#**. The API is being used by 40-50 developers in the D&A department.
- **HR Confidential Project Automation**: Worked on the C# coding section to Download, Decrypt, Convert and Upload encrypted files from **Azure Blob Storage** using the ADF pipeline. After the files get uploaded to blob there is another ELT pipeline on ADF to do some transformation depending on business need then finally pushed to **Always Encrypted** Azure SQL Database. I got recognition from the company for this project.

Teaching Assistant, Department of Computer Science, IIUM

Fall 2017 – Summer 2018

CSC 1100 | Elements of Programming
Conducted 2 weekly tutorial classes for 2 hours each, demonstrated the 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 to the effectiveness of Linear Regression, kNN & support vector Machine to predict missing values in a variable-sized dataset. The imputation from kNN gives near to accurate prediction than the other two. The results are compared in terms of MAE, RMSE, RSE and Wilcoxon test. Datasets were collected from the Kaggle website which was of around 4k rows. The coding part was done in both R and Microsoft Azure ML. For the Visualization, we used the 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.

Awards & Scholarships

2015-2018 **Dean's List** | *Department of Computer Science, IIUM*
Seven 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/C++, Python, Java, JavaScript, R
Frameworks & Libraries	NumPy, Seaborn, Pandas, PowerBI, SSIS, Alteryx

Deployment	Git
OS	Linux(Ubuntu), Windows
Cloud Computing	Microsoft Azure

Extra-curricular Activities

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

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

Others

Citizenship **Bangladeshi**

Referees

References available upon request.