

# Ragib Shahariar Ayon

Blockchain Software Engineer  
Electronics and Telecommunication Engineer

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## EXPERIENCE

### Blockchain Software Engineer

#### BJIT Group

April 2021- Present

##### Project: Morris Block Explorer

- Technology: Javascript, NodeJS, Express, MongoDB, Hyperledger Besu, Rinekby private network
- Led a small team of backend developers to develop the block explorer project which can fetch data from any private or public blockchain network to reduce the time to query by 45%.

##### Project: Multi-host Hyperledger Fabric network

- Technology: Hyperledger Fabric and docker swarm network.
- Developed a multi-host Hyperledger Fabric network for multiple parties to work in a defined consortium

##### Project: Decentralized Token Exchange

- Technology: Smart Contracts, Solidity, Truffle, ganache
- Developed a decentralized token exchange to change fiat currency with cryptocurrency and vice versa. The token swap is capable of purchasing NFT using ERC20 tokens instead of ethers.

##### Project: NFT marketplace

- Technology: Smart Contracts, Solidity, Truffle, ganache, Hyperledger Besu, Mythx
- Developed and optimized the smart contract for an NFT marketplace to automatically mint, purchase, and sell in real-time in a private blockchain network. Increased the sales of that NFT marketplace by 40% and reduced the downtime to 20% using cloud computing

### Associate DevOps Engineer

#### Neural Semiconductor Limited

April 2021- April 2021

- Learned About DevOps culture, tools and technologies
- Created Basic CI/CD pipeline using Git, Docker, Jenkins and Kubernetes

## EDUCATION

### BSc. in Electronics and Telecommunication Engineering (ETE)

May 2022

Rajshahi University of Engineering and Technology (RUET), Bangladesh

*Thesis: Brain tumor Segmentation and Classification Using Machine Learning Algorithm: Fuzzy C Mean and Quadratic Support Vector Machine*

### Higher Secondary Certificate

2014

Notre Dame College, Dhaka

### Secondary School Certificate

2012

Ideal School & College, Motijheel, Dhaka

## STANDARDIZED TEST SCORES

IELTS: Overall Band Score: 8.0 | CEFR Level: C1

## PUBLICATIONS

- Brain Tumor Segmentation and Classification using Spatial Fuzzy C mean and Quadratic Support Vector Machine. By Ragib Shahariar Ayon, Jannatul Robaiat Mou, et al. published at 2019 3rd International Conference on Electrical, Computer & Telecommunication Engineering (ICECTE). pp. 233-236, doi: 10.1109/ICECTE48615.2019.9303511 [Link](#)
- A new approach of moving object detection using background subtraction method. By Ragib Shahariar Ayon, Jannatul Robaiat Mou, et al. published at 2019 3rd International Conference on Electrical, Computer & Telecommunication Engineering (ICECTE). pp. 256-259, doi: 10.1109/ICECTE48615.2019.9303552. [Link](#)

## PROJECTS

### The Battle of the Neighborhoods | [Link](#)

- Used Nominatim geolocator, Foursquare API, K mean Clustering and Folium
- Used Clustering algorithms to cluster locations that have similar venues

### Brain Tumor Segmentation and Classification | [Link](#)

- Used Matlab for image processing and tumor type prediction
- Used Fuzzy-C-Mean clustering, Support Vector machine for predicting brain tumor from MRI.

### Comparisons of Classifiers for Diabetics Prediction | [Link](#)

- Used Early Stage Diabetes Risk Prediction Dataset to compare: RandomForestClassifier VotingClassifier GradientBoostingClassifier DecisionTreeClassifier MLPClassifier LogisticRegression GaussianNB

## AREA OF EXPERTISE

- Scripting computer programs with **Python, JavaScript, C, C++,** and Bash
- Training Machine Learning models using **Numpy, Pandas, Scikit-learn, Keras, TensorFlow,** and **OpenCV.**
- Visualizing Data using **Matplotlib, Seaborn,** as well as **Tableau.**
- Writing complex queries using **SQL** for relational databases such as **MySQL, PostgreSQL,** and **MSSQL.**
- Analyzing statistical data using **MATLAB, R, SPSS**
- Developing full-stack decentralized applications using **Solidity, Truffle, Ganache, Hyperledger Besu,** and Hyperledger Fabric
- Backend Web Development using **NodeJS, ExpressJs** and **Mongodb.**

## CERTIFICATIONS

### Professional Scrum Master™ I (PSM I)

Scrum.org

Issued Feb 2022 | No Expiration Date | [Verify](#)

### AWS Certified Cloud Practitioner

Amazon Web Services (AWS)

Issued Feb 2022 | Expires Jan 2025 | [Verify](#)

### Scrum Team Member

International Scrum Institute

Issued Jul 2021 | No Expiration Date

### Data Analyst with SQL Server Track

DataCamp

Issued Oct 2020 | No Expiration Date | [Verify](#)

### DeepLearning.AI Tensorflow developer Specialization

Coursera

Issued Aug 2020 | No Expiration Date | [Verify](#)

### Deep Learning Specialization

Coursera

Issued Aug 2020 | No Expiration Date | [Verify](#)

### Statistics with Python Specialization

Coursera

Issued Jul 2020 | No Expiration Date | [Verify](#)

### Data Scientist with Python

DataCamp

Issued Jun 2020 | No Expiration Date | [Verify](#)

### Fundamentals of Visualization with Tableau

Coursera

Issued May 2020 | No Expiration Date | [Verify](#)

### IBM AI Engineering Professional Certificate

Coursera, Authorized By IBM

Issued May 2020 | No Expiration Date | [Verify](#)

### Data Science Professional Certificate

Coursera, Authorized By IBM

Issued Apr 2020 | No Expiration Date | [Verify](#)

### Art and Practice of Leadership (APL)

Bangladesh Youth Leadership Center (BYLC)

Issued Mar 2017 | No Expiration Date

## References

### Dr Md Munjure Mowla

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### Jannatul Robaiat Mou

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