MD. NAZMUDDOHA ANSARY

Senior Researcher (Deep Learning)
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EXPERIENCE

- **Senior Researcher (Deep Learning)**
  Royal It Limited, Dhaka, Bangladesh (*May 2019 – present*)
- **Research Assistant (RA)**
  Laboratoire d'Etudes en Géophysique et Océanographie Spatiales
  (LEGOS), France (*July 2018 – October 2018*)
- **R&D Software Engineer**
  Celltron LTD, Dhaka, Bangladesh(*May 2017 – December 2017*)
- **Researcher (Academic): Satellite Data Processing and Machine Learning**
  In association with: IWFM and Dept. of CSE, BUET, Dhaka, Bangladesh
  (*November 2018 – April 2019*)

EDUCATION

Degree	Institution	Result
S.S.C	Govt. Laboratory High School, Rajshahi	G.P.A- 5.00/5.00
H.S.C	Govt. New Degree College, Rajshahi	G.P.A- 5.00/5.00
B.Sc (EEE)	BUET	C.G.P.A- 3.20/4.00

PUBLICATIONS

- ***Intertidal digital elevation model (DEM) of CHITTAGONG using high-resolution SENTINEL 2 imagery and tidal model.***
  Nazmoddoha Ansary, Md. Jamal Uddin Khan, Fabien Durand, A.K.M. Saiful Islam. At *7th International Conference on Water and Flood Management-ICWFM 2019* (In Press)*Funding:* CNES(French Govt. Space Agency), French Embassy, Dhaka.
- *PersonalContribution:* Satellite Image Processing, Python Module development

- ***A Sweet Recipe for Consolidated Vulnerabilities: Attacking a Live Website by Harnessing a Killer Combination of Vulnerabilities for Greater Harm.***
  Mazharul Islam, *Md.Nazmuddoha Ansary*, Novia Nurain, Salahuddin Parvez Shams and A. B. M. Alim Al Islam. (Link:10.1109/NSysS.2018.8631373)
- *Personal Contribution:* The exploitation and security evaluation of the Govt. website (http://teacher.xxxx.xx.xx) mentioned in the paper
- ***Analysis of Modular Multilevel Converter Based Solid State Transformer Implementing Hybrid Control.***
  Rajesh Paul, *Nazmuddoha Ansary*, Abdur Rokib, Irrtisum Khan and Shamim Reza.(Link:10.1109/ICECE.2018.8636742)
- *Personal Contribution:* MATLAB Implementation of the algorithm (Link:GITHUB)
- ***R3Diver: Remote robotic rescue diver for rapid underwater search and rescue operation.***
  Fattah, S. A, Abedin, F, *Ansary, M. N*, Rokib, M. A, Saha, N, & Shahnaz, C.(Link:10.1109/TENCON.2016.7848658)
- *Personal Contribution:* Arduino UNO programming (C/C++) of the ROV control
- ***Particle Size Analysis by Image processing Technique.***
  Khaled M. Ehsan, Md. Raquibul Hossain, Tanvir Manzur,*Ansary Shohag*, Nazifa Tabassum. (Link:Paper Link)
- *Personal Contribution:* Implementation of the algorithm in MATLAB (Link:GITHUB)

ON GOING

- ***High Resolution Intertidal Topography from Sentinel-2 Multi-Spectral Imagery: Synergy between Remote Sensing and Numerical Modelling***
  Md Jamal Uddin Khan , *Nazmuddoha Ansary* , Fabien Durand , Laurent Testut , Marufa Ishaque , Stéphane Calmant , Yann Krien , A.K.M. Saiful Islam , Fabrice Papa . Status- Submitted For Evaluation,
- *Personal Contribution:* Module Development For Shoreline Extraction Algorithm (Link:GITHUB)
- ***Water level modeling for flood forecasting based on BMD provided rainfall data with Recurrent Neural Networks.***
  Nazmuddoha Ansary, Md Jamal Uddin Khan . (Link:GITHUB) - Currently Being Communicated
- ***Forged Image To Natural Image reconstruction: Analysis of GAN architectures in the context of image reconstruction .***
  Nazmuddoha Ansary, Shakir Hossain, Shahriar Prince, Mohammad Bin Monjil . (Link:GITHUB) - Currently Being Communicated

PROJECTS

Machine Learning And Image Processing:

- HandWritten Bangla Character Recognition Using Advanced Convolutional Neural Networks (Link:DenseNet Implementation: H-OCR)
- Sentinel-2 Satellite Data Handling Library (Link:SATLIB)
- TPU-keras BusterNet for Image forgery Detection (Link:BusterNET TPU)

Computer and Network Security :

- Binary Hacking Training Presentation: (Link:Binary Exploitation Basics) Topics:
  - Bypassing a password checking binary
  - Ways to know the actual password
  - REVERSE ENGINEERING, KEYGEN,PARSER DIFFERENTIAL, and many more.
- .hta (*CVE-2017-0199 and CVE-2017-8570*) and VBA-Script vulnerability binary assessment for evading virus definitions on MS-WORD and MS-POWERPOINT exploiting OLE (Object Linking and Embedding) vulnerabilities in MS-OFFICE 2016. *(Valid Till-2017 December)*
- Improvised Technique with SSLSTRIP, dns2proxy, and ARP spoofing for getting HTTPS data in the local Wi-Fi-network *(Valid Till-2017 October)*

Academic Group Projects:

- Speech Recognition with MFCC feature extraction (MATLAB).
- Heart Rate Monitoring and health evaluation (MATLAB, Arduino).
- Highway Vehicle tracking and counting via live video feed and comparing efficiency between Matlab Computer Vision and Python OpenCV
- DLD project on the digital clock

COMPUTER SKILLS

Programming Languages:
- **Python:**
  - **-** *Specialties*   *:* TensorFlow,Keras,sklearn,OpenCV,pandas,GDAL
  - **-** *Familiar with*   *:* Django,facebook-SDK
- **MATLAB:**
  - **-** *Specialties*   *:* Simulink, Computer Vision toolbox
- **C/C++:**
  - **-** *Specialties*   *:* Network programming
- Familiar with   : C#, Javascript (electron,node.js)

Operating systems:
- *Proficient in*   *:* Ubuntu, Kali Linux, Windows
- *Familiar with*   *:* Jessie (Raspbian), Zorin OS, Fedora

Tools and Programs:
- Text   : *Microsoft Office, LibreOffice,LATEX*
- Disassemblers   : *gdb,radare2*
- Exploitation Frameworks : *BEEF, Metasploit*
- Network Analysis Tools : *Wireshark, sslstrip, Fluxion*
- Vulnerability Scanners : *Nikto, Nmap, NetSparker, Burp Suite*

REFERENCES

- **Dr. A. B. M. Alim Al Islam**
  Associate Professor, Department of Computer Science and Engineering, Bangladesh University of Engineering and Technology (BUET)
  alim_razi@cse.buet.ac.bd

- **Dr. Md. Shamim Reza**
  Associate Professor, Department of Electrical and Electronic Engineering, Bangladesh University of Engineering and Technology (BUET)
  shamim_reza@eee.buet.ac.bd

- **Dr. Fabien Durand**
  Charge de Recherche, LEGOS, Institut de Recherche pour le Développement.
  fabien.durand@ird.fr

- **Md Jamal Uddin Khan**
  Ph.D. Student, Université Toulouse III - Paul Sabatier, Laboratoire d'Etudes en Geophysique et Oceanographie Spatiales, Centre national de la recherche scientifique.
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