Minhaz Kamal

Assistant Engineer (CSE)

Bangladesh Power Development Board (BPDB)

Website: minhazkamal.github.io
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OBJECTIVE

- Constantly looking for new learning opportunities and remaining updated with the newest trends and innovations in computer science, to further progress as an academician and researcher.

- Bringing value to the academic community via effective teaching, and research that tackles pressing issues, with an emphasis on **Blockchain**, **Machine Learning** and, **Artificial Intelligence**.

- To utilize the expertise to drive positive social impact, develop innovative solutions for pressing challenges, promote inclusivity, and improve lives in an equitable and sustainable society.

EDUCATION

B.Sc. in Computer Science and Engineering
Jan. 2019 - May 2023

Islamic University of Technology (IUT) — Gazipur, Bangladesh

Department of Computer Science and Engineering

Result: CGPA 3.89/4.00 (First Class with Honours)

- **Research Group:** Networking and Data Analysis Group (NDAG)
- **Thesis:** A peer-to-peer Blockchain-Based Approach for Blood Donation Community

Higher Secondary School Certificate (HSC)
2016-2018

Notre Dame College — Dhaka, Bangladesh

Result: GPA 5.00/5.00

Secondary School Certificate (SSC)
2014-2016

Sher-e-Bangla Nagar Govt. Boys' High School — Dhaka, Bangladesh

Result: GPA 5.00/5.00

EXPERIENCE

Bangladesh Power Development Board (BPDB)   Jun. 2024 - Present

Assistant Engineer (CSE) — Dhaka, Bangladesh

Responsibilities:

- Currently attending foundation training for Assistant Engineers of BPDB

Bangladesh University of Business & Technology (BUBT) Jul. 2023 - Jun. 2024
Lecturer, CSE Dhaka, Bangladesh
Responsibilities:

- Conducting Classes - Discrete Mathematics, Operating System and Mathematical Analysis for Computer Science
- Organizing departmental work

DataSoft Systems Bangladesh Limited Oct. 2021 - Nov. 2021
QA Intern Dhaka, Bangladesh
Responsibilities:

- Uses of task tracking software - JIRA
- Implementation of Load Testing

RESEARCH EXPERIENCE

Blockchain Research Group Dec. 2022 –May 2023
Training Program and Research Collaboration
Responsibilities:

- In-depth training and collaborative effort aimed at a group of undergraduate students from different universities, supervised by Md Tariqul Islam (Asst. Prof., Syracuse University)
- Weekly workshop on the basics of distributed systems and blockchain technology and discussion on research ideas.
- Collaboration among Syracuse University, Dhaka University, BRAC University, Shahjalal University of Science and Technology, and the Islamic University of Technology.

RESEARCH INTEREST

The Network and Data Analysis research field is of great interest to me, and I am enthusiastic about exploring and contributing to it. My research interests are detailed below.

Research interests:

- Blockchain Technology
- Machine Learning
- Cyber Security
- Data Analytics
- Digital Forensic

PUBLICATIONS

Journals

[1] M. **Kamal**, C. M. Abdullah, F. Shaiara, A. R. Mostofa Kamal, M. M. Hasan, J.-S. Kim, and M. A. Hossain, "Blockchain-based pension system ensuring security, provenance and efficiency", *IEICE TRANSACTIONS on Information and Systems*, vol. E106-D, no. 5, pp. 1085–1088, 2023, ISSN: 1424-8220, 1745-1361, (SCIE, Q3).

International Conference

[1] Habibullah, M. O. Ullah, M. **Kamal**, M. S. H. Sohag, and M. S. Rahman, "Improved convolutional neural network and transfer learning with vgg16 approach for image classification", in *2023 International Conference on Innovation and Intelligence for Informatics, Computing, and Technologies (3ICT)*, 2023, pp. 389–396.

[2] C. M. Abdullah, M. **Kamal**, F. Shaiara, A. R. Mostofa Kamal, and M. A. Hossain, "Bloodcomm: A peer-to-peer blockchain-based community for blood donation network", in *25th International Conference on Computer and Information Technology (ICCIT)*, IEEE, Cox's Bazar, Bangladesh, Dec. 2022, pp. 218–223.

[3] M. **Kamal**, F. Shaiara, C. M. Abdullah, S. Ahmed, T. Ahmed, and M. H. Kabir, "Huruf: An application for arabic handwritten character recognition using deep learning", in *2022 25th International Conference on Computer and Information Technology (ICCIT)*, IEEE, Dec. 2022, pp. 1131–1136.

SKILLS

- **Programming Language:**
  C, C++, Java, Python, Javascript, Solidity

- **Development Tools:**
  Codeblocks, VS Code, Jupyter Notebook, Intellij

- **Database:**
  MySQL, OracleSQL

- **Libraries and Frameworks:**
  Keras, Tensorflow, Matplotlib, Numpy, Pandas

- **Other Proficiencies:**
  LaTeX, Cisco, Remix

LANGUAGES

- **Bangla:** Native

- **English:** Proficient

- **Hindi:** Conversant

- **Arabic:** Reading

ACADEMIC PROJECTS

See full list of projects on github.com/minhazkamal

HURUF (Tensorflow, EJS, ExpressJS, NodeJS)   2022
A web application to recognize Arabic Handwritten Characters and Digits
https://github.com/minhazkamal/Arabic-Handwritten-Character-and-Digit-Recognition

GLEAM (MySQL, ExpressJS, EJS, NodeJS)   2021
A web application to build a community for donating and receiving blood
https://github.com/minhazkamal/Blood-Donation-App

AYOMOY LIFE SAVER (Java, JavaFX, Oracle)   2021
A desktop application to mange Blood Donation System
https://github.com/minhazkamal/Ayomoy-Life-Saver

IUT CDS MANAGEMENT SYSTEM (C++)   2020
A simple grocery shop management system
https://github.com/minhazkamal/IUT_CDS_Management_System

STUDENT RECORD and RESULT MANAGEMENT SYSTEM (C)   2019
A simple record and result management system
https://github.com/minhazkamal/Student-Record-and-Result-Management

Achievements and Awards

- FINALIST - AFFINE BLOCKCHAIN HACKATHON 2022   Oct. 2022 –Oct. 2022
- FINALIST - BLOCKCHAIN OLYMPIAD BANGLADESH 2022   Jun. 2022 –Jun. 2022
- FINALIST - BUSINESS CASE COMPETITION, MINDSPARKS'22   Jun. 2022 –Jun. 2022
- FINALIST - ROBI DATATHON 2.0   Jun. 2022 –Jun. 2022

Extracurricular Activities

- Organizer at **ICPC Asia Dhaka Regional Contest**   2023
  *Memebr of **Publicity** and **Sponsor & Finance** Subcommittee*

- Treasurer at **IUT Computer Society (IUTCS)**   2022–2023
  Maintain financial ledger, providing budgets for various events

- Volunteered at **Hackathon Event, IUT 10th ICT Fest**   2019
  Conducted the Hackathon Event

- Volunteered at **the IUT campus campaign of Student to Startup- Chapter 1.0 powered by ICT Division, iDEA, Startup Bangladesh and Young Bangla**   2019
  Promoting the event as campus ambassador of IUT

- President-Finance at **Notre Dame Outward Bound Adventure Club (OBAC)**   2017–2018
  Maintain financial works, present monthly financial reports, provide and maintain budgets of various events

Other Activites

- Organized Intra IUT Programming Contest by IUTCS - 2022

- Organized 2 National Adventure Fest in 2017 and 2018 by OBAC

- Hosted and organized Workshops, Seminars, and Cultural Programs at IUT

- Manager of IUT CSE Cricket Team for the year 2022 and 2023

Hobbies and Interests

- **Curricular:**
  Blockchain, Machine Learning, Business Analytics, Web Development, Data Science, Communication and Networking

- **Co-Curricular:**
  Vector Art, Digital Art, Illustration, Excel Manipulation

- **Extra-Curricular:**
  Travelling, Sports, Driving Cars and Bikes

Personal Details

Name	:	Minhaz Kamal
Mother's Name	:	Ashrafee Jahan
Father's Name	:	Sikder Rashed Kamal
Marital Status	:	Unmarried
Siblings	:	1 younger brother and 1 younger sister
Date of Birth	:	30th November 2000
Nationality	:	Bangladeshi by birth
Present Address	:	Flat. 7C, Akash Rowshan Tower, House No. 311, West Shewrapara, Mirpur, Dhaka-1216
Permanent Address	:	C/O Sikder Rashed Kamal, Village: Mulkhana, Post Office: Kalabaria, Police Stattion: Naragati, Upazilla: Kalia, District: Narail, Division: Khulna
Alternate Email	:	minhazkamal.official@gmail.com
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References

1. **Md. Azam Hossain, Ph.D.**[1]
   Associate Professor, Department of Computer Science and Engineering
   Islamic University of Technology (IUT)
   Room 402, Second Academic Building
   Board Bazar, Gazipur 1704.
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   Email: azam@iut-dhaka.edu

2. **Sabbir Ahmed**
   Assistant Professor, Department of Computer Science and Engineering
   Islamic University of Technology (IUT)
   Room 502, Second Academic Building
   Board Bazar, Gazipur 1704.
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[1]Thesis Supervisor