

# ABDULLAH AZIZ SHARFUDDIN

abdullahshakhor@gmail.com | +880-1775003972 | shakhor.github.io

 [abdullah-sharfuddin](#) |  [shakhor](#) |  [abdullah-shakhor](#)

Dhaka-1212, Bangladesh

## RESEARCH INTERESTS

Software Engineering, Distributed Systems, Cloud Computing, Security and Privacy, Human-Computer Interaction

## EDUCATION

### • Computer Science & Engineering

Bachelor of Science

◦ GPA: 3.26/4.00

Apr '15 - Aug '19

Sylhet, Bangladesh

## PUBLICATIONS

C=CONFERENCE, J=JOURNAL, P=PATENT, S=IN SUBMISSION, T=THESIS

- [C.1] Abdullah Aziz Sharfuddin, et al. (2018). **A Deep Recurrent Neural Network with BiLSTM model for Sentiment Classification**. In *International Conference on Bangla Speech and Language Processing*, pp. 1-4. IEEE. Publisher. September 2018, Sylhet, Bangladesh. DOI: 10.1109/ICBSLP.2018.8554396

## RESEARCH EXPERIENCE

### • SUST NLP Group

Undergrad Research Assistant [Bengali Text Classification Project]

◦ Performed benchmarking with deep learning models for small datasets

◦ Developed a platform for crowdsourcing the annotation of classification dataset collected from the comment section of the news portals

◦ Conducted workshop and study sessions for junior-year students

June. '18 - Apr '19

Sylhet, Bangladesh

## PROFESSIONAL EXPERIENCE

### • bKash Ltd

Senior Software Engineer [Research & Engineering]

◦ Developed coupon for pay-bill and mobile recharge

◦ Developed and optimized dynamic configuration settings for secure and efficient pin-reset processes using biometric verification;

◦ Engineered a new method for onboarding a new population segment to expand the customer base;

◦ Converted legacy services to reactive architecture, improving scalability and performance by 30 percent;

◦ Introduced a fast and efficient dynamic document generation service for the most revenue-generating service;

◦ Developed a POC for evaluating the performance of third-party vendor APIs;

◦ Developed APIs introducing new features in the pay-bill service;

◦ Added new features to the internal biometric verification service;

Skills: Spring Boot, Java, DynamoDB, Redis, MySQL, Docker

Jan '23 - Present

Dhaka, Bangladesh

### • Hash Solution

Lead Backend Engineer

◦ Designed the backend architecture from the ground up, along with models and data flow

◦ Developed user management and identity modules for seamless user onboarding with an easy-to-manage multi-factor authentication system

◦ Engineered a bulk import export engine for managing reports and entities, creating a pleasant user experience

◦ Designed and developed a generic payment solution on top of Stripe, including both one-time and subscriptions

◦ Hired and trained new joiners

Skills: Fiber, Golang, DynamoDB, Redis, Stripe, Docker

Jan. '23 - Jul. '23

Remote

### • SELISE Digital Platforms

Software Engineer

◦ Lead a team of 6 developers conducting internal technical consultancy, planning, and product release

◦ Engineered the first SAML-based SSO in the internal identity service

◦ Engineered distributed tracing and monitoring service using open-Telemetry improving developer productivity and faster bug fixing

◦ Engineered distributed computing for a matching tool improving performance and better user experience leveraging message-driven architecture

◦ Developed reuse-able front-end components and services

◦ Improved efficiency and performance of existing core platform APIs and services


Skills: .Net, .Net Core, C#, Angular, TypeScript, JavaScript, GraphQL, MongoDB, Redis, RabbitMQ, Docker

Aug. '19 - Dec. '22

Dhaka, Bangladesh

## PROJECTS

---

- **e-POS: Node.js POS application for gas stations with role-based access** Mar '19 - June '19  
*Tools: Node.js, Express, MongoDB, ejs* 
  - Developed a POS system with role-based access control for secure sales and staff management at gas stations
  - Implemented efficient back-end processing, achieving streamlined inventory and cash register management
  - Engineered an automated notification system, ensuring timely reminders for payments and tasks
  - Applied access control methods to secure and track transactions, ensuring accountability
- **Lekhoni: Bengali Alphabet Writing App for Kids** Sep '17 - Mar '18  
*Tools: TensorFlow, Java, Android Studio*
  - Trained a model leveraging the deep neural network for recognizing handwritten Bengali alphabets
  - Developed restful APIs to recognize handwritten characters
  - Developed an Android app(POC) where the user can learn how to write an alphabet using gestures
  - Developed a point system to make it more interactive
- **P2P Solution: Peer-to-Peer Chat and File Sharing Desktop App** Sep '16 - Feb '17  
*Tools: Java, Socket Programming*
  - Developed a peer-to-peer chat and file-sharing desktop app for communication and file exchange
  - Enabled connections over the same network or public IPs using designated IP addresses and port numbers
  - Utilized Java Socket for efficient communication between devices
  - Applied OOP and software design principles for fast connectivity, data management, and a modular system design
- **MediAlert: Medicine Reminder and Prescription Tracker App** Apr '16 - Jul '16  
*Tools: Java, Android Studio*
  - Developed an Android app for medical alerts and reminders.
  - Implemented features to upload prescriptions and set personalized medicine routines
  - Integrated timely notifications to remind users to take medicines

## LEADERSHIP EXPERIENCE

---

- **Asst. Treasurer (Research & Development)** Apr '17 - May '18  
*CAM SUST, The astronomical organization at the university*
  - Looked over the finances for the organization
  - Managed sponsorships to hold Astro Olympiads and cultural programs
  - Redesigned the membership policies and activities to increase engagement
- **Executive Member** Apr '16 - Mar '17  
*CAM SUST, The astronomical organization at the university*
  - Organized weekly study sessions and competitions
  - Organized and coordinated group picnics
- **Executive Member** Apr '16 - Mar '19  
*SUST CSE Society, A departmental organization for all the students and teachers.*
  - Co-convened the third CSE Carnival, featuring programming contests, robotics contests, and project showcasing
  - Decorated the department building and set up a guest photo booth
  - Co-organized the second CSE Carnival
  - Co-Organized two CSE cultural nights
  - Co-Organized a raffle draw in the annual tour of the department
  - Volunteered at the silver jubilee celebration of the department
- **Manager at Team DHUMKETU** Aug '17 - Jul '18  
*A team in the inter-discipline football tournament*
  - Recruited and managed a team of 10 players
  - Organized fundraising initiatives to provide financial support for the team
  - Led team to a second runner-up finish in the league championship.
- **Instructor** Jan '17 - Feb '17  
*NHSPC Boot Camp*
  - Conducted multiple workshops on data structures and algorithms for high school students.
  - Organized a contest focused on data structures and algorithms for high school students.

## HONORS AND AWARDS

---

- **Best Idea**

*Bangla symposium*

- Recognized for presenting a unique and impactful idea within a 3-minute time frame at the symposium

Sep '19

- **Finalist**

*Robi Datathon*

- Selected as a finalist among 112 teams for developing an innovative fintech prediction model during a competitive data science event.
- Made valuable connections with industry experts and professionals

Jul '19

- **First Runner-up Poster**

*International Conference on Bangla Speech and Language Processing*

- Recognized for presenting academic research posters at the International Conference on Bengali Speech and Language Processing (ICBSLP)

Sep '18

## SKILLS

---

- **Programming Languages:** Java, Python, C#, Go, JavaScript, C++, SQL
- **Frameworks & Tools:** Spring Boot, .Net core, Angular, ExpressJs, Fiber, RabbitMQ
- **Databases:** DynamoDB, MongoDB, MySQL, Redis
- **Machine Learning:** Keras, TensorFlow, PyTorch, OpenCV
- **Operating Systems:** MacOS, Linux, Windows
- **Virtualization tool:** Docker
- **Others:** Postman, Bash,  $\text{\LaTeX}$ , MS Office

## REFERENCES

---

**Md. Saiful Islam**

Assistant Professor

Department of Computer Science and Engineering

Shahjalal University of Science and Technology

Sylhet, Bangladesh

+880 1717960979

[saiful-cse@sust.edu](mailto:saiful-cse@sust.edu)

**Dr. Farida Chowdhury**

Professor

Department of Computer Science and Engineering

Brac University

Dhaka, Bangladesh

+880 1743018917

[farida.chowdhury@bracu.ac.bd](mailto:farida.chowdhury@bracu.ac.bd)

**Nabil Ahmed Lipon**

Vice President

Research & Engineering

bKash Limited

Dhaka, Bangladesh

+880 1711484383

[nabil.lipon@bkash.com](mailto:nabil.lipon@bkash.com)

**Towhidul Bashar**

Technology Manager

Enterprise Solutions

SELISE Digital Platforms

Dhaka, Bangladesh

+880 1717372345

[towhidul.bashar@selisegroup.com](mailto:towhidul.bashar@selisegroup.com)