

ABDULLAH AZIZ SHARFUDDIN

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

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

Dhaka-1212, Bangladesh

RESEARCH INTERESTS

Software Engineering, Artificial Intelligence, Human-Computer Interaction

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** June. '18 - Apr '19
Sylhet, Bangladesh
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

EDUCATION

- **Computer Science & Engineering** Dec '14 - Dec '19
Sylhet, Bangladesh
Bachelor of Science
 - GPA: 3.26/4.00

PROFESSIONAL EXPERIENCE

- **MonetizeNow**  Jul '25 - Present
Remote, USA
Backend Engineer
 - Trained Claude Code to write integration tests from the Qase test ticket descriptions;
 - Used Claude Code to write unit tests, which led to 30% more code coverage;
 - Engineered a configurable dunning process on top of the existing dunning feature;
 - Solved three production issues;
 - Skills: *Spring Boot, Java, Kotlin, reactJs, DynamoDB, PostgreSQL, Docker*
- **bKash Ltd**  Jan '23 - Jul'25
Dhaka, Bangladesh
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*
- **Hash Solution**  Jan. '23 - Jul. '23
Remote
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*

• SELISE Digital Platforms [🔗]

Software Engineer

Aug. '19 - Dec. '22

Dhaka, Bangladesh

- 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

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

• Chat App: Peer-to-Peer Chat and File Sharing Desktop App

Sep '16 - Feb '17

Tools: Java, JavaFX, 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**

Sep '19

Bangla symposium

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

- **Finalist**

Jul '19

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

- **First Runner-up Poster**

Sep '18

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)

TEST SCORES

- **GRE(312):** Quant: 165, Verbal:147, AWA: 3.5
- **IELTS(8.0):** Listening: 8.5, Reading: 8.5, Writing: 7.5, Speaking: 7

SKILLS

- **Programming Languages:** Java, Python, C#, Go, JavaScript, Kotlin, C++, SQL
- **Frameworks & Tools:** Spring Boot, .Net core, Angular, ExpressJs, Fiber, RabbitMQ
- **Databases:** DynamoDB, MongoDB, MySQL, PostgreSQL, Redis
- **Machine Learning:** Keras, TensorFlow, PyTorch, OpenCV
- **Operating Systems:** MacOS, Linux, Windows
- **Virtualization tool:** Docker
- **Others:** Postman, Bash, L^AT_EX, 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

Towhidul Bashar

Principal Software Engineer
Enterprise Solutions
SELISE Digital Platforms
Dhaka, Bangladesh
+880 1717372345
towhidul.bashar@selisegroup.com

Nabil Ahmed Lipon

Vice President
Research & Engineering
bKash Limited
Dhaka, Bangladesh
+880 1711484383
nabil.lipon@bkash.com