

Ahmed Samin Yeaser Kabir

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EDUCATION

The Ohio State University

PhD in Computer Science and Engineering, Current CGPA: 3.76 (On a scale of 4.00)

Columbus, Ohio, USA

August 2023 - Present

Research Focus: Vector Database, Similarity Search, Data Management, Data Mining

Research Advisor: Prof. John Paparrizos

University of Dhaka

B.Sc. in Computer Science and Engineering, CGPA: 3.65 (On a scale of 4.00)

Dhaka, Bangladesh

January 2016 - December 2019

Thesis: Utilizing Transfer Learning Approach in Attention-based Neural Network for Bengali QA

Supervisor: Dr. Muhammad Asif Hossain Khan, Professor, University of Dhaka

Thesis Areas: Natural Language Processing , Machine Learning

Thesis Grade: A+

Field of Interests: Data Management, Data Mining, Machine Learning, Data Structure, Algorithm

EXPERIENCE

The Ohio State University

Graduate Teaching Assistant

Dhaka, Bangladesh

August 2023 - Present

TigerIT Bangladesh Ltd.

Software Engineer

Dhaka, Bangladesh

February 2020 - August 2023

Web Development:

Contributed to the front-end and back-end development of two large-scale government systems—the National Identification (NID) system and the NTMC Intelligence system. Key contributions include:

- Developed a unified profiling feature in NTMC to aggregate individual data across multiple government systems
- Built front-end components (Angular, JSP), ~200 APIs, and back-end services using Spring Boot and Flask
- Implemented data synchronization with the legacy NID system
- Designed and implemented a generic lookup module (NID) and a report generation module (NTMC) from scratch

Cross-platform Desktop and Mobile app Development:

Worked on the CommChat project, developing a cross-platform desktop application and multiple mobile mini-apps. Key contributions include:

- Conducted R&D on libraries for feature development across desktop and mini-app platforms
- Implemented multiple application features and enhancements
- Optimized performance and reduced resource consumption of the desktop application

Manuscripts Under Review

- First-author manuscript on similarity search under review at SIGMOD 2026.
- First-author manuscript on similarity search under review at VLDB 2026.

Additional Qualification

- **Online Courses (Coursea):** Machine Learning offered by Stanford University, Deep Learning Specialization offered by deeplearning.ai and Generative Adversarial Networks (GANs) offered by deeplearning.ai.

SKILLS

Programming Language

C, C++, Java, JavaScript, TypeScript , Python, Octave

Machine Learning Framework

PyTorch, Keras, scikit-learn

Framework

Flask, Spring MVC, Angular, Android, Ionic, Electron, Vue

Database

MySQL, Oracle SQL, MongoDB, Firebase, Elasticsearch, Kudu

Operating System

Windows, Ubuntu

Others

Algorithms, Data Structures, Git

ACHIEVEMENTS

- **Runners up**, Code Samurai Inter-University Hackathon
- **18th position**, SUB IUPC 2018
- **36th position**, 2018 ACM-ICPC NCPC National Programming Contest
- Reached maximum Rating at: Codechef - **2004(Top 2%, Country Rank - 136. Long Contest Country Rank - 30, Long Contest Global Rank - 2552)** (kidflash), Codeforces - **1675(Expert)** (God_of_thunder)
- Solved over 1000 problems of discrete domains in different online judges