

# Ahmed Samin Yeaser Kabir

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## EDUCATION

### The Ohio State University

Columbus, Ohio, USA

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

August 2023 - Present

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

**Research Advisor:** Prof. John Paparrizos

### University of Dhaka

Dhaka, Bangladesh

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

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

Dhaka, Bangladesh

Graduate Teaching Assistant

August 2023 - Present

### TigerIT Bangladesh Ltd.

Dhaka, Bangladesh

Software Engineer

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

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- **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