# Ahmed Samin Yeaser Kabir

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## EDUCATION

**The Ohio State University**                                        **Columbus, Ohio, USA**
*PhD in Computer Science and Engineering,   Current CGPA:* **3.79** (***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

## PUBLICATION

- First-author manuscript on similarity search under review at SIGMOD 2026.
- Enhancing Approximate Nearest Neighbor Search via Index Pairing (Under review)
  **Ahmed Samin Yeaser Kabir**, Xiao Luo, Dimitris Dimitropoulos, Nikos Mamoulis, John Paparrizos
  VLDB 2026

## EXPERIENCE

**The Ohio State University**                                        **Columbus, Ohio, USA**
*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

## 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

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|---|---|
| **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