Ahmed Samin Yeaser Kabir

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EDUCATION

The Ohio State University   **Columbus, Ohio, USA**
PhD in Computer Science and Engineering,   Current CGPA: **3.77** (***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 Question Answering
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, Natural Language Processing, 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:
I was part of the team that developed the front end and back end of two large-scale government projects (Nation Identification system and Intelligence system for NTMC). I contributed approximately 70% in the NTMC project whereas I had 20% contributions on the NID project, including but not limited to:

- Developed optimized unified profiling feature in the NTMC project that could create a profile of a certain person by getting data from different government projects using different identification features
- Developed front-end (using Angular and JSP), APIs (Around 200), and back-end (using Spring Boot and Flask frameworks) in these projects
- Syncing data to NID legacy project
- Developed a generic lookup module in the NID project and a generic report generation module in the NTMC project from scratch
- Wrote database migration scripts

Cross-platform Desktop and Mobile app Development:
After working on NID and NTMC projects I was shifted to the CommChat project (As this project had a higher priority for the company). I worked on the desktop app and several mobile mini-apps on that project.

- R&D different libraries for distinct features (also in cross-platform mini apps)
- developed a lot of features
- investigated and fixed bugs on the desktop app.
- Improved performance and optimized resource usage of the Desktop app.

Additional Qualification

- **Online Courses (Coursea):** Machine Learning offered by Stanford University, Deep Learning Specialization (4 courses) offered by deeplearning.ai and Generative Adversarial Networks (GANs)(1 course) offered by deeplearning.ai.

SELECTED ACADEMIC PROJECTS

Chhoyshoacre
An online news portal   *2020*

- A platform where students can say their voice.
- Technologies used: Flask, MongoDB, JavaScript, JQuery, HTML, CSS

purpleoj

An online Judge 2018

- Users can create and participate in contests.
- Technologies used: Flask, MongoDB, JavaScript, JQuery, HTML, CSS

DU NET

A social networking platform 2017

- An online platform to communicate with each other and information about DU buses such as current location, and schedules can be found.
- Technologies used: Android, FireBase, Java

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