

ALIF AL HASAN

✉ alif.stu2017@juniv.edu | [in Alif Al Hasan](https://www.linkedin.com/in/AlifAlHasan) | [github alifalhasan](https://github.com/alifalhasan) | [instagram alifalhasan](https://www.instagram.com/alifalhasan)

Education

Jahangirnagar University

M.Sc. in Computer Science and Engineering

Bangladesh

Jul 2023 – Dec 2024

- CGPA: 3.85/4.0
- Thesis: SEAGET–Seasonal and Active hours guided Graph Enhanced Transformer for next POI recommendation

Jahangirnagar University

B.Sc. (Hons.) in Computer Science and Engineering

Bangladesh

Feb 2018 – Jul 2023

- CGPA: 3.63/4.0

Work Experience

Teaching Assistant

Department of Computer Science and Engineering, Jahangirnagar University

Dec 2021 – Apr 2024

Dhaka, Bangladesh

- Taught **data structures, algorithms, C/C++ programming**, organized practice contests, and conducted regular training sessions.

Competitive Programming Mentor

Department of Computer Science and Engineering, Netrokona University

Aug 2023 – Dec 2023

Netrokona, Bangladesh

- Prepared students for programming competitions by teaching algorithms and data structures, conducting training sessions, organizing practice contests, and monitoring performance.

Competitions and Achievements

- Ranked **3rd** out of **165** teams in ICPC Asia Dhaka Regional Contest 2021 (Team: JU_kzvd4729)
- Ranked **17th** out of **58** teams in ICPC Asia West Continent Finals 2021 (Team: JU_kzvd4729)
- Ranked **19th** out of **196** teams in NCPD Onsite 2023 (Team: JU_kzvd4729)
- Ranked **12th** out of **114** teams in BUET Inter University Programming Contest 2022 (Team: JU_kzvd4729)
- Ranked **12th** out of **97** teams in RUET CSE FEST 2k22 IUPC (Team: JU_262627)
- Ranked **14th** out of **105** teams in Cefalo CodeFiesta 2022: AUST IUPC (Team: JU_kzvd4729)
- Ranked **24th** out of **110** teams in ICPC Dhaka Regional 2020 (Team: JU_Amigos)
- Ranked **1st** out of **57** teams in MBSTU Inter Department Programming Contest 2020A (Team: JU_Fury)
- Ranked **4th** out of **86** participants in Cub Hunting Programming Contest 2019 (Name: Alif Al Hasan)
- Participated in more than **15** regional, national, and inter-university Programming Contests
- **Codeforces**: Ranked among the **top 2%** with a highest rating of **1931** (handle: alif_cse_ju)
- **Codechef**: Ranked among the **top 2%** with a highest rating of **2084** (handle: alif_cse_ju)
- Solved over **4500** programming problems on different online judges (stopstalk.com/alif_cse_ju)

Publications

Journal Papers

- **Alif Al Hasan** and Md. Musfique Anwar, “SEAGET: Seasonal and Active hours guided Graph Enhanced Transformer for the next POI recommendation”, **Array (Scopus, Q1)**. [Under Review]

Conference Papers

- **Alif Al Hasan**, Md. Musfique Anwar and M. Arifur Rahman, “Redefining POI Popularity: Integrating User Preferences and Recency for Enhanced Recommendations”, *2nd International Conference on Machine Intelligence and Emerging Technologies, MIET 2024*, November 2024. [Accepted]

Grants and Fellowships

National Science and Technology (NST) Fellowship

Ministry of Science & Technology, Bangladesh

Jun 2024

- Selected for Fellowship of **\$600** to support M.Sc. thesis research (**Top 5%**).

Scholarships

- Secured **merit scholarships** each academic year during B.Sc. education.
- Recipient of **2009 Primary Education Completion (PEC) Examination scholarship**, Bangladesh.

Coding Projects

Arabic2English | *Gradio, PyTorch, TorchText, Transformers, NLTK, Pandas, Spacy* Mar 2024

- Developed a web app to translate between Arabic and English, and documented the project with a **model card**.
- Implemented **CI/CD pipelines** for automating the build, testing, and deployment processes.

EPL Top5 Emblem Classifier | *NumPy, SciPy, Gradio, TensorFlow* Jan 2024

- Built a web-based image classification app for emblem recognition, and documented project in a **model card**.
- Utilized **CI/CD practices** to streamline the build, testing, and deployment workflows.

Team Tracker | *Java, Spring boot, MySQL, Room Database* Jan – Apr 2022

- An Android app designed to visualize and track team members' activities through dynamic graphs and charts.

Write In | *HTML/CSS, Bootstrap, JS, EJS, Node JS, MongoDB* Feb – Dec 2022

- Created a website where users can swiftly write blog entries to share their knowledge with others.
- Followed standard **Object Oriented Analysis and Design**.

Extracurricular Activities and Volunteer Work

Instructor Nov 2024

Workshop on Strategies for Competitive Programming Success Bangladesh Digital University

- Delivered a session on improvement strategies, contest tactics, and problem-solving techniques.
- Organized **2 contests** to provide hands-on practice for participants preparing for onsite competitions.

Judge, Organizer, Trainer, and Problem Setter Sep 2023

CodeElevate Camp 2023 Jahangirnagar University

- Conducted a session on **graph algorithms** and set **1 problem** for the main round of the contest.

Judge, Organizer, and Problem Setter Jan 2022

Brain Muscle Checking Contest 2022 Jahangirnagar University

- Set **2 problems** for the main round of the contest.

Skills

Languages: C/C++, Java, Python, MATLAB, Assembly, Bison/Flex, SQL, JavaScript, HTML, CSS

Machine Learning: PyTorch, Tensorflow, Keras

Developer Tools: Jupyter Notebook, Git, VS Code, Android Studio, PyCharm, IntelliJ, LaTeX, ReactJS