Md. Asif Haider

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EDUCATION

- **Bangladesh University of Engineering and Technology (BUET)** *May 2019 - Present*
  BSc. in Computer Science and Engineering (Level 4 Term 1 ongoing) Dhaka, Bangladesh
  -CGPA (upto 6 out of 8 semesters): **3.64/4.00**

- **Notre Dame College (NDC)** *Jul 2016 - Oct 2018*
  Higher Secondary School Dhaka, Bangladesh
  -GPA: **5.00/5.00**

RESEARCH EXPERIENCE

- **Security and Software Engineering (S2E) Lab** *Feb 2023 - Present*
  Visiting Undergraduate Research Assistant, University of Notre Dame Indiana, USA

  – Currently working on research projects on automating Software Engineering tasks using NLP methods
  – Performed data cleaning, statistical analysis, and running transformer models in Pytorch
  – **Supervisor:** Mohammed Latif Siddiq, PhD Student, University of Notre Dame

- **Bangladesh Computational Social Science (BCS2) Lab** *Apr 2021 - Present*
  Research Assistant Dhaka, Bangladesh

  – Currently contributing to research projects regarding statistics, data science, and applied NLP
  – Performed data cleaning, analysis, plotting, and web scraping tasks with Python
  – Delivered lectures on web development and version control systems for the lab members
  – **Supervisor:** Dr. Nur Ahmed, Postdoctoral Associate, MIT Sloan & MIT CSAIL

- **Next-generation Computing Lab** *Mar 2021 - Present*
  Undergraduate Research Assistant, Bangladesh University of Engineering and Technology Dhaka

  – Currently working on a research project regarding animal brain activity realization via embedded systems
  – Performed graph plotting, regression analysis with Python, and interfacing with Arduino
  – **Supervisor:** Dr. A. B. M. Alim Al Islam, Professor, CSE, BUET

PROJECTS AND PUBLICATIONS

- **Code Complexity Prediction (Conference Paper)** *Mar 2023 - May 2023*
  *Accepted in the **2nd International Workshop on Natural Language Based Software Engineering***

  – Co-authored a workshop paper on the effectiveness of zero-shot prompting for code complexity prediction using GitHub Copilot
  – **Paper Link:** https://s2e-lab.github.io/preprints/nlbse23-preprint
  – **Tools & Technology:** Python (Numpy, Pandas, Matplotlib, Scipy)

- **Forecasting COVID-19 Cases (Journal Paper)** *Sep 2020 - Apr 2021*
  *Published in the **Results in Physics (Elsevier)** Journal, Impact Factor: 4.565*

  – Co-authored a research article on comparative performance analysis between recurrent and convolutional neural networks for time series COVID-19 data to forecast death cases
  – **Publication Link:** https://www.sciencedirect.com/science/article/pii/S2211379721002904
  – **Tools & Technology:** Machine Learning, Deep Learning, Python (Tensorflow, Keras, Seaborn)

Organizations and Affiliations

- **IEEE Computer Society BUET Student Branch Chapter** *Mar 2021 - Present*
  Vice Chairperson (Strategy) Dhaka, Bangladesh

  – Organized national level programming contests and hackathon competitions
  – Hosted research talks, software development seminars, and workshops

- **BUET Career Club** *Feb 2021 - Present*
  Assistant General Secretary (Top Management) Dhaka, Bangladesh

  – Arranged educational and corporate knowledge-sharing sessions at the national level
  – Facilitated business competitions and industry internship programs

Skills

- **Languages:** English (Professional), Bengali (Native)
- **Performing Arts:** Theatre, Anchoring, Public Speaking
- **Designing:** Figma, Canva
- **Programming:** C, C++, Python, Java, JavaScript, SQL
- **Tools and Technology:** Git, Docker, Linux, VSCode, Google Colab, Kaggle

Awards and Achievements

- **HPC Immersion Scholarship:** Travel Grant to attend the Super Computing Conference (SC'22) *Sep 2022*
- **BUET CSE Fest Hackathon:** Devops Category Project Champion *Aug 2022*
- **Student Poster Champion:** 8th International Conference on Networking, Systems, and Security *Dec 2021*
- **National ICT Award:** Tertiary Student Project Category Winner *Jun 2020*
- **ISCEA Ptak Prize:** International Supply Chain Case Competition Winner *May 2019*
- **Talent Pool Scholarship:** Outstanding academic result in Higher Secondary Certificate Exam *Nov 2018*
- **NDC Honorable Mention Award:** Distinction in Academic & Extracurricular activities *Jan 2018*
- **Runner Up:** Dhaka Regional Mathematical Olympiad *Jan 2017*

Relevant Coursework

Computer Security, Bioinformatics Algorithms, Computer Graphics, Artificial Intelligence, Operating Systems, Computer Networks, Data Structures and Algorithms, Database Systems, Software Engineering, Information System Design, Numerical Methods, Discrete Mathematics, Object Oriented Programming, Linear Algebra, Probability and Statistics