Md. Asif Haider

Undergraduate Junior
Computer Science and Engineering (CSE)
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Education

- **Bangladesh University of Engineering and Technology (BUET)** *May 2019 - Present*
  BSc. in Computer Science and Engineering (Level 3 Term 2 ongoing) Dhaka
  -CGPA (up to Level 3 Term 1, after 5 out of 8 semesters): **3.65/4.00 (Major: 3.75/4.00)**
- **Notre Dame College (NDC)** *Jul 2016 - Oct 2018*
  Higher Secondary School Dhaka
  -GPA: **5.00/5.00**

Research Experience

- **Bangladesh Computational Social Science Lab** *Apr 2021 - Present*
  Research Assistant Dhaka

  – Currently contributing to research projects regarding statistics, data science, and applied NLP
  – Performed data cleaning, analysis, plotting, and web scraping tasks with Python on various datasets
  – 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 Dhaka

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

Publications and Projects

- **Forecasting COVID-19 Cases (Research Article)** *Sep 2020 - Apr 2021*
  *Published in **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)

- **BookKeep (Academic Project)** *Dec 2021 - Feb 2022*
  Online book store platform

  – Relational database management project: MVC web application with raw SQL queries and version control
  – **Project Link:** https://github.com/arifinnasif/BookKeep
  – **Tools & Technology:** HTML5, CSS3, Javascript, Bootstrap, Python (Django), Oracle, Git, Docker

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*

Skills

- **Programming:** C, C++, Python, Java, JavaScript, SQL, R
- **Tools and Technology:** Git, Docker, Linux, Arduino, VSCode
- **Languages:** English (Professional), Bengali (Native)

Organizations and Affiliations

- **IEEE Computer Society BUET Student Branch Chapter** *Feb 2021 - Present*
  Vice Chairperson (Strategy) Dhaka
  - Organized national level programming contests and hackathon competitions
  - Hosted research talks, software development seminars and workshops

Relevant Coursework

- **Major:** Artificial Intelligence, Operating Systems, Computer Networks, Computer Architecture, Data Structures and Algorithms, Microprocessors, Microcontrollers and Embedded Systems, Database Systems, Compilers, Data Communication, Software Engineering, Information System Design, Numerical Methods, Discrete Mathematics, Object Oriented Programming
- **Minor:** Linear Algebra, Probability and Statistics, Differential Equations, Complex Numbers, Electronic Circuits, Electrical Machinery and Instrumentation