

Research Interest

Software Engineering, Software Testing, Machine Learning, Autonomous Vehicle.

Education

University of Virginia

Ph.D. in Computer Science (August 2024 – Present)

Bangladesh University of Engineering and Technology (BUET)

B. Sc. in Computer Science and Engineering (March 2018 – May 2023)

CGPA: 3.94/4.00

Major GPA: 3.96/4.00

Work Experience

Graduate Research Assistant (LESS Lab)

Department of Computer Science, University of Virginia

August 2024 - Present

Lecturer (On Leave) ([Profile](#))

Department of Computer Science and Engineering, BRAC University, Dhaka

May 2023 - Present

Research Collaborator

Security and Software Engineering (S²E) lab, University of Notre Dame

June 2023 - December 2023

Publications

- **Joy Saha**, Trey Woodlief, Sebastian Elbaum, Matthew B. Dwyer. “STADA: Specification-based Testing for Autonomous Driving Agents.” *Under Review*.
- Mohammed Latif Siddiq, Simantika Bhattacharjee Dristi, **Joy Saha**, Joanna C. S. Santos. “The Fault in Our Stars: Quality Assessment of Code Generation Benchmarks.” *SCAM 2024*.
- **Joy Saha**, Atif Hasan Rahman, Md. Abul Hassan Samee. “Probabilistic Clustering of Cells Using Single-Cell RNA-seq Data.” *bioRxiv Preprint*.

Achievements

- Received Provost’s Fellowship from the University of Virginia for demonstrating commitment to academics and research.
- Awarded research grant of 81,000 TK for undergraduate thesis from Research and Innovation Centre for Science and Engineering, Bangladesh University of Engineering and Technology (BUET).
- Received Dean’s List Award in each semester and University Merit Scholarship in each level.
- 9th in Physics Olympiad 2017 (Rajshahi division).
- 3rd in Chemistry Olympiad 2016 (Rajshahi division).

- Achieved talentpool scholarship from Bangladesh Government in Secondary School Certificate & Higher Secondary Certificate examination (16th in Rajshahi board).
- Champion in Math Olympiad 2009 (Rajshahi division).

Extracurricular Activities

Hobbies: Coin & Banknote collection, Aquarium keeping, Travelling, [Chess](#).