

Israt Jahan Reshma

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Education

Gopalganj Science and Technology University

- Bachelor of Science in Computer Science and Engineering; GPA: 3.8/4.0

Gopalganj, Bangladesh

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Technologies

- Programming Language :** C/C++, Python, Javascript.
- Python Library:** Pandas, Numpy, Matplotlib, Plotly, Seaborn, BeautifulSoup, scikit-learn, OpenCV, LangChain, LlamaIndex.
- Web Development :** Html, css, Tailwind css, Django.
- Database:** MySQL, PostgreSQL.
- Tools :** Git, GitHub, VS Code, Figma, Proteus, LaTex, Jira.
- Other's :** Strong knowledge in core computer science fields such as Data Structures, Algorithms, OOP, Database, Software Engineering(SDLC, MVC, Agile Methodologies, Manual Testing: Functional, Regression, Integration), Operating System, Computer Architecture, Knowledge about CI/CD pipeline.

Competitive Programming Status

[Codeforces](#), [Leetcode](#), [Codechef](#), [Atcoder](#)

- Solved more than **2500** algorithmic problems on different online judge.
- Max -rating on codeforces 1368(**PUPIL**)
- Participate 300+ contest on various online judge and few onsite contests including **NGPC**, 1st UGV SOUTH ZONE Programming Contest, 2nd UGV SOUTH ZONE Programming Contest.[\[Link\]](#)

Project Experience

CareHUB, Salon & Parlor Booking Platform

[\[LINK\]](#)

- Developed an online booking system allowing users to find, compare, and book salons based on reviews, pricing, and availability. Implemented a barber selection feature and real-time time-slot booking for a personalized experience.
- Tools Used: HTML, Tailwind CSS, JavaScript, Django, PostgreSQL

Bazar Dor Monitizing

[\[LINK\]](#)

- A software project designed to monitor and track the prices of various products on a daily basis and implemented reporting system that anyone can report to admin with product id for high prices.
- Tools Used: Java Swing, AWT, Thread, MySQL

Typing Game

[\[LINK\]](#)

- Developed Typing game for providing speed and accuracy for user. Implemented file system that provide the typing progress.
- Tools Used: C/C++, C Graphics, Object Oriented Programming concept, C file

Undergraduate Research Experience

"Characterizing the Role of Link in Tweets by npm Maintainers: Source, Purpose and Decay."

- Investigated 18,408 links in NPM maintainers' tweets to understand their role in the NPM ecosystem. Outcome: Most links target package management content like blogs and tutorials. 80% are unique, 20% repeated. GitHub is the top domain after Twitter, with 5% of links inaccessible.

"An Empirical Investigation of NPM Stack-traces via Stack Overflow: Issues, Patterns, and Developer Queries"

- Mined 849,645 Stack Overflow posts on popular NPM libraries to investigate developer challenges involving stack traces and Characterized error patterns, query types, and difficulties developers face when troubleshooting NPM-related issues.

"Predicting CSE Undergraduate Students' Careers Using Machine Learning Algorithms in the Context of Bangladesh."

- A survey of 468 CSE students from various Bangladeshi universities identified key factors influencing career choices, including academic skills, soft skills, and job preferences. Outcome: Most students prefer the software development

sector. ML algorithms like Logistic Regression, Decision Tree, Random Forest, and others were applied, with Random Forest achieving the highest accuracy.

Award

AlphaHouse – Smart Parking Solution : Innovative approach to smart parking solutions

- Recognized for pioneering innovation in smart parking and urban mobility at GSTU's University Innovation Hub Program—an initiative supported by the ICT Division, Bangladesh Hi-Tech Park Authority, and funded by The World Bank.

Certification

[\[View Certificates\]](#)

- Data Analysis With Python by EDGE (Enhancing Digital Government and Economy) Project training, under the Bangladesh Computer Council (BCC), ICT Division.
- National Girls Programming Contest - 2022
- University of Global Village South Zone Programming Contest
- Learnathon 3.0 – Job-Ready Tech Program, Sponsored by **Brainstation23** : Learned Django, Software Development, Version Control (Git), Design Patterns, CI/CD pipeline and Database Management through real-world projects with industry mentorship.