






Ananya Shahrin Promi

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SUMMARY

Highly motivated Computer Science and Engineering student with a strong academic record.
Possess a solid foundation in programming languages, web development frameworks, and hardware integration.

EDUCATION

Bangladesh University of Engineering and Technology (BUET) <i>Bachelor of Science in Computer Science and Engineering (CSE)</i>	December 2021 – Ongoing <i>Current CGPA: 3.96/4.00</i>
Rajshahi College <i>Higher Secondary Level</i>	July 2018 – January 2021 <i>GPA: 5.00/5.00</i>
Naogaon Government Girls' High School <i>Secondary Level</i>	January 2016 – April 2018 <i>GPA: 5.00/5.00</i>

PROFESSIONAL EXPERIENCE

CoderVai <i>Online Course Instructor: CSE Fundamentals</i> Developing and launching an online course that introduces students to the fundamentals of Structural Programming Languages (SPL) within the broader context of CSE.	January 2024 – Present
Bangladeshi Women in Computer Science and Engineering <i>Webmaster</i> Managing the club website including troubleshooting technical issues and updating content.	June 2023 – Present
BUET Cyber Security Club <i>Design Executive</i> Designing posters and banners for publication of the club.	June 2023 – Present
Bangladesh Mathematical Olympiad <i>Academic Team Member</i> Preparing problem sets for the Olympiad, checking scripts, and taking classes in camps.	2020 – Present
Udvash Academic and Admission Care <i>Math Instructor</i> Taught high school mathematics and improved student engagement through interactive activities.	January 2022 – December 2023
CrossRoads Initiative <i>SAT Math Instructor</i> Prepared students for the SAT Math section by developing engaging lesson plans and practice exercises.	June 2021 – January 2022

EXTRA CURRICULAR ACTIVITIES

BUET Dance Club <i>Member</i> Performing dances on cultural programs and attending workshops.	June 2023 – Present
BUET CSE-21 Reception Program <i>Organizing member</i> Worked on the organizing team to host juniors' reception program and planned a treasure hunt.	December 2022
Mermaid Publication <i>Writer</i> Published an adventure novel <i>Chander Gari</i> , in Amar Ekushey Boi Mela, 2020.	February 2020
Rajshahi College Science Club <i>Member</i> Contributed to organizing an annual Science Fest, developing teamwork, and attended science workshops.	2018 – 2020
Smartians of Science <i>Club member</i> Actively participated in science workshops, developing critical thinking and problem-solving skills.	2018 – 2020

SCHOLARSHIPS

University Merit Scholarship, (2023 – Ongoing)

Awarded For Extraordinary Performance in the last three semesters.

Dean's List Scholarship, (2022 – Ongoing)

Awarded For Outstanding Performance in Level-1 and Level-2.

BUET Technical Scholarship, (2021 – Ongoing)

Awarded For Excellent Performance in Higher Secondary Certificate Examination.

Government General Scholarship, (2021 – 2024)

Awarded For Excellent Performance in Higher Secondary Certificate Examination.

Government General Scholarship, (2018 – 2019)

Awarded For Excellent Performance in Secondary School Certificate Examination.

Government Talentpool Scholarship, (2016 – 2017)

Awarded For Outstanding Performance in Junior School Certificate Examination.

ACHIEVEMENTS

HULT PRIZE, on-campus round, BUET, 2023 – Top 16 qualifier teams

Intra BUET Capture The Flag (CTF), 2023 – Rising Team

BUET CSE Fest Hackathon, 2023 – Top 15 qualifying teams (API and Cloud Service section)

BUET CSE-20 Reception Programming Contest, 2022 – 7th position

BUET CSE-20 Reception Treasure Hunt, 2022 – Champion Team

Integration Bee, Tachyon BD, 2020 – 2nd position (team)

National Education Week, Bangladesh, 2019 – *Best Student of Bangladesh* award winner

Bangladesh Mathematical Olympiad (BdMO), 2015, 2016, 2017, 2018, 2019 – National winner

Bangladesh Physics Olympiad (BdPhO), 2016, 2018, 2019 – National winner

Science Olympiad, RUET Annual Science Fest, 2020 – 1st position

Creative Talent Hunt, 2017, 2019, 2020 – Divisional winner (Mathematics and Computer section)

Bangladesh Junior Science Olympiad, 2018, 2019 – National winner

National High School Programming Contest, 2016, 2017 – National winner

COURSEWORK

Computer Architecture, Software Engineering, Compiler, Data Communication, Embedded Systems, Theory of Computation, Database, Digital Logic Design, Numerical Methods, Discrete Mathematics, Data Structure and Algorithm, Object Oriented Programming, Structured Programming Language.

PROJECTS

DeepVision Voyager | Team Project

February 2024

- Built a WiFi-controlled robot with object detection in the live video stream.
- **Hardware:** Raspberry Pi 4, Motor and motor driver, Webcam, WiFi adapter, servo motor, and Power bank.
- **Technologies:** YOLOv3, Socket Programming, and Python.

4-bit MIPS | Team project

February 2024

- Developed a 4-bit MIPS (Microprocessor without Interlocked Pipelined Stages).
- **Hardware:** ATmega32A and basic gates.

C Compiler

February 2024

- Developed a simple C compiler for a small subset of the language.
- **Technologies:** Flex and Bison.

4-bit ALU | Team project

January 2024

- Developed a 4-bit ALU (Arithmetic Logic Unit).
- **Hardware:** Basic gates.

My Bibliophile Friend | Team project

September 2023

- Developed Bibliophile, a web platform for book enthusiasts to connect and exchange books.

- **Technologies:** Oracle SQL, Node.js, JavaScript, and Next.js framework.

Tetris What's Wrong   | *Game Jam 2023, IEEE CS, BUET*



January 2023

- Developed Reverse Tetris, a single-player game that subverts classic Tetris gameplay.
- **Technologies:** Godot Engine and GDScripts.

Movie Database Management  

September 2022

- Built an application for maintaining a file-based movie database.
- **Technologies:** Java, JavaFX, and networking.

Game: Mission Extreme   | *Team project*

April 2022

- Developed a simple running and chasing game.
- **Technologies:** C++ and iGraphics.

CERTIFICATIONS

MIT High School Summer Program

2020

Completed four courses: *Art of Cryptography*, *World Languages and Language Puzzles*, *Mathematical Models and How to Build One*, and *Intro to Genetics*.

MIT OpenCourseWare (OCW)

2020

Completed two courses: *Introduction to Computer Science and Programming in Python* and *Introduction to C and C++*.

National Bangladesh Math Camp

2016 – 2020

Deepened my understanding of advanced mathematical concepts of geometry, number theory, algebra, and combinatorics. Honed problem-solving and critical thinking skills through group discussions.

Bangladesh Junior Science Camp

2018

Intensified knowledge in advanced Physics, Chemistry, and Biology topics relevant to Science Olympiads.

National High School Programming Camp

2016 – 2017

Developed foundational programming skills in C and C++ and honed problem-solving abilities through contests.

SKILLS

Languages: C, C++, Java, Python, JavaScript, GDScript

Database: Oracle, MongoDB

OS: Windows 7, Windows 10, Windows 11, Ubuntu 20.04, macOS Ventura, macOS Sonoma

Tools: Git(GitHub), Unix Shell, VS Code, IntelliJ IDEA, PyCharm, Overleaf

Web Technologies and Frameworks: HTML, CSS, JavaFX, Node.js, Next.js, React

Technical Writing: LaTeX, Beamer, TikZ

Libraries: pandas, NumPy, Matplotlib

Soft Skills: Presentation, Problem-solving, Creative Writing, Mentoring and collaborating