Tajul Islam Tarek

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LinkedIn | GitHub | Codeforces (**Expert**) | CodeChef (**4-Star**)

EDUCATION

Shahjalal University of Science and Technology   Sylhet, Bangladesh
B.Sc. in Computer Science and Engineering; ***CGPA: 3.72/4.00***   *2022 – Present*

ACHIEVEMENTS

Competitive Programming: Codeforces Expert; **CodeChef 4-Star**; Solved **1000+ problems** across various platforms.

Contest Performance: 5th place, SUST Intra-University Programming Contest; **29th**, Uttara University IUPC 2025; **34th**, IIUC IUPC 2023.

Hackathons: Champion, DNA Hack for Health 2026 (Sylhet); **Honourable Mention**, JavaFest 2025; **5th place**, DU AI Challenge 2025; **First Runner-Up**, Techathon segment of TechnoCrats V.2 2024 (IUBAT); **Honourable Mention**, Solvio AI Hackathon 2025;

PROJECTS

Automatic Attendance System   GitHub
– Developed an automated attendance system leveraging **computer vision** for facial recognition with a centralized web dashboard for management.
– Utilized **ResNet** and **dlib** for face recognition, **FastAPI** for managing recognition workflows, and the **MERN stack** to build a live attendance monitoring platform.

NeuroNurture   GitHub
– Developed a web-based autism screening and support platform with game-driven assessments.
– Built core ML models, used **MediaPipe** to extract behavioral landmarks, engineered a **FastAPI-based game server** to manage models, and implemented a **LangChain-powered AI agent** that generates child progress summaries via **SQL-based queries**.

Annolink (Android App)   GitHub
– Built a mobile marketplace connecting researchers and annotators for scalable dataset labeling.
– Used **Kotlin** and **Jetpack Compose** for app development, with **Firebase** for database management.

KillTheMonster   GitHub
– Designed an interactive 2D desktop game featuring complex movement logic and collision detection.
– Built the application using **Java, JavaFX**.

SUST Mental Health Portal   GitHub
– Built a support platform connecting students with psychologists, featuring a **RAG-based AI chatbot**.
– Developed a **RAG-based AI chatbot** and designed its UI using **React.js**.

E-commerce Website – Paix   GitHub
– Full-stack e-commerce platform developed as coursework using the **MERN Stack**.

TECHNICAL SKILLS

Languages: C, C++, Java, Python, JavaScript, SQL, HTML
Machine Learning: Computer Vision, Deep Learning, TensorFlow, MediaPipe, LangChain
Web Development: React.js, Node.js, Express.js, FastAPI, MongoDB, Firebase

LEADERSHIP & VOLUNTEERING

NHSPC 2025: Volunteered for the regional round of the National High School Programming Contest, assisting in contest coordination.

Joint Secretary, SUST ACM Student Chapter (2025-2026)