

# MD SHAKIBUL ISLAM SHAKIB

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## EDUCATION

<b>University of Dhaka</b> - Institute of Information Technology	CGPA: 3.78 (till 5th semester)
Bachelor of Science in Software Engineering	Expected Date of Graduation: Sep 2026
<b>Notre Dame College</b>   HSC	GPA: 5.00 Year: 2021
<b>Thanahat AU Pilot Govt High School</b>   SSC	GPA: 5.00 Year: 2019

## TECHNICAL SKILLS

<b>Languages</b>	C, C++, Java, Python, PHP, JavaScript, HTML/CSS/SCSS
<b>Frameworks/ Libraries:</b>	React.js, Node.js, Express.js, FastAPI, Spring Boot, Flask, Next.js, Bootstrap, Scikit-learn, Numpy, Pandas, Pygame, graphics.h
<b>Tools:</b>	VS Code, Eclipse, IntelliJ, Git, GitHub, MySQL, MongoDB, PostgreSQL, Docker, Postman, ThunderClient, NGINX ,Selenium

## PROJECTS

**House Rental App (MERN + Flask + ML): Nov 2024 – Mar 2025** Engineered platform with real-time chat, notifications, maps, rent prediction (XGBoost). Built secure APIs and a dynamic React frontend.

**Graph Algorithm Visualizer (C/C++): August 2023 – December 2023** illustrated BFS, DFS, Dijkstra, Floyd-Warshall , Bellman Ford etc., with interactive graphics for both user inputs and file inputs.

**Gomoku AI Game (Pygame) :May 2025** Implemented the Gomoku game (5 in a row) for a 10x10 board that supports player vs. AI mode. Developed and optimized an evaluation function for the Gomoku AI that plays reasonably well maintaining time efficiency. The program uses a minimax algorithm with alpha beta pruning to reduce search time.

**Library System (FastAPI, MongoDB, Docker): April 2025 - May 2025** Built scalable microservice app using nginx.

**Garments Inventory(Spring Boot+PostgreSQL) May 2025** -Developed maintaining a clean architectural system.

**DUDS Management SRS: Jan 2024 – June 2024** Led the Software Requirements Specification design for the DUDS Management System, a comprehensive internal management application.

## ACHIEVEMENTS & VOLUNTEERING

**Finalist, IUT Open API Hackathon (Top 10)**

**Top 25, SUST Hackathon**

JSC & SSC Govt. Scholarships

**Volunteer: ITverse, FlutterFrenzy**

## RESEARCH &

## CERTIFICATIONS

- Co-author, ongoing research on child discipline using statistical modeling

- Certificate: LLMs in Industry & Academia (2025)

## EXTRA-CURRICULAR ACTIVITIES

Executive Member: IITSEC | Organizing Secretary: IITDC | Member: NDC Abbritti Club, Math Club, DUTS, DUTS

**Sports:** IIT Cricket & Basketball Team | Enthusiast in TT & Football

**Languages:** Bengali (Native), English , French (Beginner)(IML,DU)