

Md. Rakibul Islam

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EDUCATION

University of Dhaka - Institute of Information Technology

Bachelor of Science in **Software Engineering** - CGPA: 3.60/4.00 (Up to 5th Semester)

Dhaka, Bangladesh

Expected Graduation, Dec 2026

Dhaka Residential Model College

Higher Secondary Certificate Examination - GPA: 5.00/5.00

Dhaka, Bangladesh

Jul 2019 - Dec 2021

Harinarayanpur Secondary School

Secondary School Certificate Examination - GPA: 5.00/5.00







Kushtia, Bangladesh

Jan 2017 - Mar 2019

DEVELOPMENT SKILL SET

Programming & Query Languages	:	C, C++, Java, Python, JavaScript, TypeScript, Dart, PHP, Bash, SQL
Frameworks & Runtime Libraries	:	Spring Boot, FastAPI, NodeJS, ExpressJS, ReactJS, NextJS, Vue, Flutter, Pandas, Seaborn, OpenCV, NumPy, Bootstrap, Scikit-learn, Matplotlib, Pygame, Django
Databases & Data Platforms	:	MySQL, PostgreSQL, H2, MongoDB, Supabase, SQLite
DevOps, Testing & Tooling	:	Git/GitHub, Docker, NGINX, Postman, Selenium, PiTest, JaCoCo, Docker Swarm
OS, IDEs & Editors	:	Linux/UNIX, macOS, VS Code, IntelliJ IDEA, Eclipse, CLion, Xcode, Jupyter Notebook, Android Studio, Figma, Google Colab

PROJECTS

-  **InsightHive - Mobile-Based Crowdsourcing Platform** | (Flutter, Node.js, Express.js, MongoDB) **Nov 2024 - Mar 2025**
 - Created a mobile app that sends short surveys and stock checks to gig workers in shops.
 - Workers upload photos and answers; the data appears on an online dashboard for managers.
-  **MiniChessAI** | (Python, Pygame) **Apr 2025 - May 2025**
 - Built a 6 × 5 mini-chess game for both human-vs-human and human-vs-AI play.
 - Implemented AI with heuristic methods, move ordering, minimax, and alpha-beta pruning for improved performance
-  **Wumpus World AI** | (Python, Django, HTML, CSS, JS) **Jun 2025 - Jul 2025**
 - Developed a web-based Wumpus World AI game using Django with logical inference, knowledge-based decision making, manual/automated gameplay modes, and intelligent agent navigation with pathfinding algorithms.
-  **Smart Library System** | (Node.js, Express.js, MongoDB, Nginx, Docker, Docker Swarm) **Apr 2025 - Aug 2025**
 - Built a microservices-based Smart Library using Node.js, Express.js and MongoDB for managing users, books, and loans.
 - Containerized each service with Docker for scalable deployment and easier maintenance.
 - Used Nginx for routing and load balancing to improve performance and reliability.
-  **MediShop - Medical Inventory Management System** | (Spring Boot, PostgreSQL, React, TypeScript, Vue) **Apr 2025 - Aug 2025**
 - Developed MediShop, a full-stack pharmacy management system using Spring Boot and React TypeScript with modules for medicine inventory tracking, customer management, supplier relations, and sales analytics to automate end-to-end pharmacy operations.
-  **Skin Detection** | (Python, OpenCV, Scikit-Learn, Pandas) **Jan 2025**
 - Built an image pipeline that preprocesses photos and trains a Gaussian Naive Bayes model to label skin vs. non-skin pixels.
 - Persisted the model with joblib, letting new images be segmented instantly without retraining.

ACHIEVEMENTS AND AWARDS

2021 General Scholarship in Higher Secondary Certificate (HSC) Examination

2016 Talent-Pool Scholarship in Junior Secondary Certificate (JSC) Examination

2013 Talent-Pool Scholarship in Primary Secondary Certificate (PSC) Examination

CERTIFICATES

- LLMs in Industry & Academia : Current Trend Workshop** | DSSE Research Group, IIT, University of Dhaka **Mar 2025**

ORGANIZATIONS & VOLUNTEERING

Bangladesh Mathematical Olympiad - BdMO | Academic Team Member

Dec 2024 - Present

Dhaka University Science Society - DUSS | Provisional Member

Jan 2025 - Present

Dhaka University Career Club - DUCC | General Member

Nov 2024 - Present

Cefalo presents ITVerse 2023 | Volunteer

Oct 2023 - Nov 2023

EXTRA-CURRICULAR ACTIVITIES

- Represented the **IIT Cricket Team** in the **DU Inter-Department Cricket Tournament** as a **Fast Bowler** **2022 - Present**
- Played **football and cricket** in the **Amar Ekushey Hall Intra-Hall tournaments** at **DU** **2024**