

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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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
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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