

Md Rakibuzzaman

Computer Science & Engineering Undergraduate, AI/ML Research

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About me

Computer Science & Engineering undergraduate at United International University, Dhaka, with research in differential privacy for synthetic data, multi-source information fusion, voice-based Parkinson's disease detection and disaster damage assessment from satellite images. I lead a four-member final year design project team, founded CARCUX, and build products for real clients, including the DeltaWay tourism marketplace. I am seeking research assistant positions, internships and graduate study in AI/ML.

Education and training

Expected October 2027
Bachelor of Science in Computer Science & Engineering
United International University, Dhaka, Bangladesh

2019 – 2021
Higher Secondary Certificate (HSC)
Tamirul Millat Kamil Madrasah, Dhaka, Bangladesh

2017 – 2019
Secondary School Certificate (SSC)
Tamirul Millat Kamil Madrasah, Dhaka, Bangladesh

Research experience

2026 – Present
Optimal Privacy Budget Allocation for Synthetic Data Generation
Undergraduate research, United International University

- Building a pipeline that profiles a real tabular dataset and uses a regression model trained on past experiments to predict the privacy-budget split that maximises synthetic-data utility.
- Built on the CLOVER framework; comparing CTGAN, CTAB-GAN+, TVAE and MST. Writing a companion IEEE-format paper on MST.

2026 – Present
CARCUX: Claim Correlation and Multi-Source Fusion Models
Independent research, target: Q1 journal

- Designing two models that correlate and fuse claims from field reports, social media and news to estimate what happened during disasters and road blockages, evaluated on real data from the July–August 2024 uprising in Bangladesh.
- Constructing CARCUX-BD, a Bangladeshi multi-source claims dataset, for a separate dataset paper.

2026 – Present
Voice-Based Parkinson's Disease Detection
Final year design project, United International University. Team lead (4 members); supervisor Dr. Md. Suzauddola

- Leading the team in building a cross-lingual model that detects Parkinson's disease from voice recordings while staying reliable across differences in language and speaker demographics; target: Q1 journal.

2026 – Present
Building Damage Assessment from Satellite Imagery
Course research paper, United International University

- Detecting disaster-damaged buildings in satellite images when no labels exist for the new disaster, using the public BRIGHT dataset; focus on selecting reliable models without target labels.

Work experience

2026 – Present
Founder and Lead Developer
CARCUX, Dhaka, Bangladesh

- Building an AI situational-intelligence platform that analyses field reports, Facebook, YouTube, TV news and newspapers, reconstructs events and scores claim credibility; six AI modules, a live situation map and a verified official-statements channel.
- Running code, dataset and paper tracks in parallel in a GitHub monorepo using feature branches and pull requests.

2026 – Present

Freelance Web Developer

Self-employed, Dhaka, Bangladesh

- Designing NASHWA, a reusable multi-client e-commerce platform (Next.js) that can be branded per shop; scoped and pitched to a real food business.

Projects

2026

DeltaWay: Bangladesh Tourism Marketplace

- Solo-built three-sided marketplace for tourists, guides and hosts in Bangladesh, with a multi-step booking wizard that detects restricted regions and collects permit details.
- Integrated SSLCommerz payments with an IPN webhook that atomically updates payment and booking status; email receipts and Google/email sign-in.

Technologies: Next.js, TypeScript, Prisma, PostgreSQL, Auth.js, SSLCommerz, Resend, Vercel

2026

DURRAID Smart Assistive Wheelchair

1st Runner-Up, CSE Project Show, United International University

- Head-tilt steering: an ESP32 streams MPU6050 data over Bluetooth (HC-05) to an Arduino Mega that drives the motors and detects obstacles and drops.

Technologies: ESP32, Arduino, MPU6050, HC-05, C++

2026

Battle Arena

- Team 2D action game for the Advanced Object-Oriented Programming lab (CSE 2118), with player accounts and a character store; built the Java Spring Boot and MySQL backend.

Technologies: Phaser, Java, Spring Boot, MySQL

Language skills

Mother tongue

Bengali

Other languages

	Understanding		Speaking		Writing
	Listening	Reading	Spoken production	Spoken interaction	
English	B2	B2	B2	B2	B2

Levels: A1 and A2: basic user; B1 and B2: independent user; C1 and C2: proficient user (Common European Framework of Reference for Languages)

Digital skills

AI and machine learning	Python, PyTorch, generative models (CTGAN, TVAE), differential privacy, NLP, computer vision
Programming	Python, Java, TypeScript, JavaScript, C++, SQL
Web and backend	Next.js, React, Spring Boot, Prisma, PostgreSQL, MySQL, Auth.js, REST APIs, payment gateways, Git, GitHub
Hardware and tools	ESP32, Arduino, sensors, Bluetooth, Unreal Engine, Phaser

Honours and awards

United International University

1st Runner-Up, CSE Project Show

Awarded for DURRAID, a smart assistive wheelchair steered by head tilt with obstacle and cliff detection.

Organisational and leadership skills

Leadership

- Lead a four-member final year design project team; coordinate the literature review, research direction and weekly progress reports.
- Founded CARCUX and coordinate its platform, dataset and research work in parallel.

Hobbies and interests

Interests

Coin collecting; travelling and exploring different cultures.