

Kazi Badrul Hasan

Computer Science Student @ IUT '27 | Dhaka, Bangladesh | kazibadrul03@gmail.com | LinkedIn | GitHub

Portfolio: [kazibadrul.ami.bd](https://kazibadrul03.github.io)

PROFESSIONAL SUMMARY

AI-focused software engineering student with experience in computer vision, few-shot learning, and full-stack development. Built AI-powered applications, currently conducting research in industrial defect detection, and developed award-winning software systems using modern web and machine learning technologies.

EDUCATION

Islamic University of Technology (IUT)	2023 – 2027
B.Sc. in Computer Science and Engineering	GPA: 3.80/4.00
<i>Relevant Coursework:</i> Data Structures & Algorithms, Artificial Intelligence, Machine Learning, Database Systems, Software Engineering	
Notre Dame College	2020 – 2022
Higher Secondary Certificate (Science)	HSC General Scholarship
RAJUK Uttara Model College	2016 – 2020
Secondary School Certificate (Science)	

WORK EXPERIENCE

Contract AI Solutions Developer	Jul 2025 – Nov 2025
Remote	
<ul style="list-style-type: none">Built scalable scraping and sentiment analysis pipeline aggregating customer reviews from 5+ platforms using Python, BeautifulSoup, and Pandas.Designed OpenAI-powered prompt engineering workflows achieving 90% sentiment classification accuracy while reducing manual analysis time by 80%.Developed FastAPI backend with role-based access control for analytics delivery and reporting automation.	

SELECTED PROJECTS & RESEARCH

Few-Shot Learning for Defect Detection in RMG Garments	Research Project
<ul style="list-style-type: none">Conducting research on few-shot learning architectures for garment defect detection with minimal labeled data under faculty mentorship at IUT.Exploring industrial computer vision applications to reduce annotation costs and improve model generalization for manufacturing automation.	
BikriHobe — AI-Powered Campus Marketplace	3rd Place, CodeRush 2025
<ul style="list-style-type: none">Built AI-assisted second-hand marketplace integrating computer vision for automated item condition analysis and campus-wide listings.Developed responsive full-stack platform using Next.js and React. GitHub	
Acadex — Unified Academic Workspace	
<ul style="list-style-type: none">Developed academic productivity platform featuring note-taking, scheduling, OCR, and task management functionality using Next.js and Supabase.Integrated Tesseract OCR and deployed responsive cloud-hosted application. Live GitHub	
Transport Management System (TMS)	
<ul style="list-style-type: none">Engineered fleet and ticketing management platform with real-time booking workflows and operational analytics using PostgreSQL and Prisma ORM.Implemented transaction-safe booking system and relational database architecture. GitHub	
MiniMinds — Interactive Learning Platform for Kids	
<ul style="list-style-type: none">Built offline educational platform featuring 6+ interactive learning mini-games using JavaFX and SQLite.Designed child-friendly UI and student progress tracking system. GitHub	

TECHNICAL SKILLS

Languages: Python, Java, C++, TypeScript, JavaScript, SQL, PL/SQL

Frameworks: React, Next.js, Node.js, Express.js, FastAPI, JavaFX

Databases: PostgreSQL, MongoDB, SQLite, Prisma ORM

AI/ML: Computer Vision, Few-Shot Learning, Prompt Engineering, OpenAI API, Pandas, OCR

Tools: Git, Supabase, Clerk, Cloudinary, Tailwind CSS, Vercel

LEADERSHIP & ACTIVITIES

IUT Computer Science Society

Current

PR & Marketing - Sub-Executive

Led marketing and outreach initiatives for IUT National ICT Fest 2024 and coordinated campus-wide technical event engagement.

Notre Dame International Understanding & Relationship Club

Until 2022

Documentation - Executive

ADDITIONAL INFORMATION

Languages: Bengali (Native), English (Fluent) | **Hackathons:** CodeRush 2025 (3rd Place) | **Research Interests:** Few-shot learning, computer vision, AI for industrial applications