



Md Jabid Hassan Khan

Computer Science Candidate

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Summary

Computer Science student at BRAC University (completed all coursework and thesis requirements, currently awaiting formal graduation). Passionate about software engineering, application development, and emerging technologies. Dedicated to building a career in technical roles that offer continuous learning, innovation, and professional growth while leveraging technology to solve real-world challenges.

Experience and Projects

BRAC University

Kha 224, Pragati Sarani, Dhaka 1212

Research Thesis: AI-Driven Defect Prediction

2025-2026

- Developed an adaptive machine learning pipeline to predict software defects using Python, Scikit-learn, Pandas, NumPy, and XGBoost.
- Designed an imbalance-aware ensemble approach and evaluated the model across multiple open-source software defect datasets.
- Improved defect prediction performance while supporting effort-aware testing through software module prioritization.

Personal Project

2024

Z-Music (Mobile Application)

- Developed a cross-platform Flutter music player streaming audio from the device's local storage.
- Integrated YouTube download functionality via APIs, allowing users to efficiently download and manage music within the app.
- Designed a responsive, user-friendly interface featuring playlist and media management.

Personal Project

2024

Green Steps (Mobile Application)

- Built a sustainability-focused Kotlin application encouraging users to reduce their carbon footprint through eco-friendly activities.
- Implemented a real-time community chat system to enable users to share experiences and foster motivation.
- Developed a cloud-backed architecture utilizing Supabase and Firebase for secure authentication and real-time data synchronization

Personal Project

2023

DailyCheckMate (Web Application)

- Developed a Laravel and PHP-based daily task and routine management system to improve user productivity.
- Implemented robust task scheduling, progress tracking, and user authentication with MySQL database integration.
- Designed responsive UI interfaces and built backend functionality strictly following MVC principles.

Personal Project

2023

VangTiChai (Mobile Application)

- Created a lightweight Flutter application designed for quick, accurate shared expense (Vangti) calculations.
- Focused heavily on optimizing simple navigation, fast processing, and intuitive user experiences

Education

BRAC University

B.Sc. in Computer Science

Computer Science and Engineering

Kha 224, Pragati Sarani, Dhaka 1212 • 2022 - 2026

Highlight: Nominated for the Best Thesis Award (Summer 2026).

Coursework: Data Structures & Algorithms, OOP, Database Management Systems, Software Engineering, AI & Machine Learning, Mobile & Web App Development, Operating Systems.

Skills

 Languages : Python, C++, JavaScript, Dart, HTML5, CSS3, PHP, SQL	 Freameworks : MERN Stack (MongoDB, Express.js, React.js, Node.js), Flutter, Laravel, Bootstrap	 Database : MongoDB, Firebase, Supabase, MySQL
 ML & Data : Scikit-learn, Pandas, NumPy, XGBoost, Matplotlib, Jupyter Notebook	 Tools & Cloud : Git, GitHub, VS Code, Android Studio, Postman, Docker, Firebase Hosting, Vercel, Netlify, Render	 Core Concepts : OOP, Data Structures & Algorithms, Database Design, API Integration, MVC Architecture, SDLC, Agile

Additional Information

Publication :
Software Defect Prediction Using Machine Learning – Research paper currently awaiting publication

Certificates :
Certified in Flood Rescue and Emergency Response Training.

Languages :
Bengali (Native), English (Professional Working Proficiency).