

Md. Rakibul Kabir

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🐙 GitHub 🌐 Portfolio 🔗 LinkedIn

Profile

I am a final-year Software Engineering student at SUST with interest in full-stack development. I am a language/framework agnostic person with a passion for building new things. I love exploring new technologies, especially those related to AI.

Education

B.Sc. in Software Engineering

Mar 2022 – Nov 2025

Shahjalal University of Science and Technology, Sylhet.

CGPA: 3.55 / 4.00 (as of the 6th Semester)

Technical Skills

- **Problem Solving:** 600+ problems solved across multiple platforms.
- **Languages:** C++ Python Java JavaScript TypeScript
- **Frameworks & Technologies:** LangChain FastAPI Next.js Node.js Express.js Tailwind
- **Libraries:** React Socket.IO Next.Auth TensorFlow Streamlit Selenium
- **Databases:** MongoDB MySQL Convex Vector DB
- **Tools:** Git Docker Hugging Face Gen-AI API Cloudinary TipTap editor

Projects

- **Effective Learning** Next.js TypeScript ShadCN Open AI SDK MongoDB
Role: *Full Stack Developer* [Github](#) [Live Demo](#)
 - **Idea:** A personalized programming learning platform to effectively learn C/C++ using LLM.
 - Integrated **OpenAI API** for handling user queries and requests.
 - Used **NextAuth.js** for authentication, **Mongo ORM** on chat sessions, session history, & profile data.
- **AI Notes** Next.js LangChain LiveBlocks Gemini API Tiptap Clerk Convex Vector DB
Role: *Full Stack Developer* [Github](#) [Live Demo](#)
 - **Idea:** An AI-powered text-editor that user can write notes, & get questions answer from uploaded PDF.
 - Integrated **RAG pipeline** into Tiptap editor using Google's text-embedding model.
 - Added **Liveblocks.io CRDT** algorithm for real-time collaboration and co-editing on same workspace.
- **Image Classification** CNN TensorFlow FastAPI Streamlit Docker NextAuth
Role: *Full Stack Developer* [Github](#) [Live Demo](#)
 - **Idea:** A web-based image classification system using CNN to identify images with real-time predictions.
 - Built a custom CNN architecture with TensorFlow/Keras achieving high accuracy on image classification.
 - Developed RESTful API backend with FastAPI for efficient model serving and real-time image processing.
- **SMS Spam Classifier** Streamlit Pandas Numpy Scikit-learn Matplotlib Seaborn
Role: *Full Stack Developer* [Github](#) [Live Demo](#)
 - **Idea:** A platform to classify any SMS as it spam or legitimate.
 - Applied data preprocessing (cleaning, tokenization, TF-IDF feature extraction).
 - Trained & evaluated with **11 classification models**, where **Naive Bayes** achieving the best performance.
- **Campus Media** React Tailwind Node.js Express Redux MongoDB Cloudinary
Role: *Full Stack Developer* [Github](#) [Live Demo](#)
 - **Idea:** A social platform where students can follow friends, post on feed, and interact with chatbot.
 - Built frontend using **React** and backend with **Node.js & Express**.
 - Added **Redux** for state management and implemented custom hooks for efficient data handling.

Research Experience (Ongoing)

- **Effective Learning: AI-Powered Personalized Education System** Prompt Engineering
Md. Rakibul Kabir, Md. Farzine Hossen, Siam Arefin, Saikat Singh, Supervisor: Fazzle Rabbi Rakib
Developing an intelligent learning platform that leverages prompt engineering to personalize education and deliver adaptive, effective learning experiences. [Github](#) [Live Demo](#)