

# Mohammad Abtahe Alam

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## Education

### Khulna University of Engineering & Technology

January 2020 - July 2025

B.Sc. in Computer Science and Engineering

CGPA: 3.28(Out of 4.00) up to 4<sup>th</sup> year 1<sup>st</sup> semester

## Technical Skills

- **Programming Language :** C++, Python, Java, SQL, PHP, JavaScript
- **Frontend:** React, HTML, CSS
- **Backend:** Node.js, Express.js, Laravel
- **Database:** Oracle Database, MySQL, Firebase, MongoDB
- **Web Technologies and other Tools:** Web Scraping, Postman, Git
- **Machine Learning:** TensorFlow, PyTorch, Scikit-learn, Matplotlib

## Thesis

Multimodal 3D MRI Brain **Tumor Segmentation** Using a Deep Learning Approach

## Projects

### System for End-to-End Encrypted Messaging

Android | Java | Firebase

- An Android-based messenger app that supports secure communication through end-to-end encryption. Users can send text, PDFs, and other documents, manage friend requests, and view active status
- Firebase Authentication and Realtime Database (for user management and messaging), Firebase Cloud Messaging (for notifications) and **hybrid encryption**(Combined **RSA** and **AES**) for message encryption

### Travel Agency Website

PHP | Laravel | MySQL

- A full-stack web application that allows users to browse, select and **book travel packages**. Includes admin and user dashboards for managing tour plans.
- PHP (server-side logic), Laravel (MVC framework), MySQL (database for storing packages and user data)

### Hospital Management Database

ORACLE Database

- A structured database system for managing **hospital data** such as patients, doctors, appointments and billing. Supports efficient data retrieval using **SQL queries**.
- Oracle SQL (for writing optimized queries and managing relational data)

### E-Commerce Website

MongoDB | Express.js | React.js | Node.js

- A website for managing products—allowing users to add, update and delete items. Demonstrates **CRUD** operations and component-based design.
- React.js (for interactive frontend UI), Node.js and Express.js (backend runtime and framework), MongoDB (NoSQL database), backend with **RESTful API** structure.

### Auditorium Design(Computer Graphics)

OpenGL

- Designed a 3D model of an auditorium with features like **lighting**, **texture mapping**, **dynamic** object, object **rotation** and **camera** movement for better visualization.
- Used **tools and libraries** like OpenGL, GLFW (for window creation and input handling), GLM (OpenGL Math library for vectors, matrices and transformations), stb\_image(image loader), GLSL(Shader Programs)

## Achievements and other activities

- Competitive coding experience in Codeforces, Leetcode, UVA, HackerRank, Vjudge etc.
- Participated in Intra KUET Programming Contest 2023
- Participated in imaGen Ventures Youth Challenge 2023
- Organizing member at BITFEST 2025, 3<sup>rd</sup> KUET CSE National FEST
- Participated in IEEE CS BDC Summer Symposium 2025