Sagnik Das
Agartala,Tripura (India)
Computer Science & Engineering
Bachelor of Technology
National Institute of Technology Agartala

📞 +91-6009978154
✉ sagnikdasso4@gmail.com
📊 **Leetcode Profile**
○ **GitHub Profile**
in **LinkedIn Profile**

EDUCATION

- **National Institute of Technology Agartala** — *Nov 2022 - May 2026*
  Bachelor of Technology in Computer Science : Agartala, Tripura — CGPA: 7.84
- **Umakanta Academy, Agartala** — *Jun 2020 - Apr 2022*
  Senior Secondary (XII) : Agartala, Tripura — Percentage: 88.6%
- **Vivekananda Shishu Niketan** — *2020*
  Secondary (X) : Bishalgarh, Tripura — Percentage: 93.6%

EXPERIENCE

- **TechSaksham** — *Jan 2025 - Mar 2025*
  AI: Transformative Learning

  – Built a deep learning model to detect potato leaf diseases with image preprocessing using OpenCV and deployed it via Streamlit for real-time predictions.
  – **Tech Stack:** TensorFlow, Keras, OpenCV, Streamlit, NumPy, Pandas.

TECHNICAL PROJECTS

- **CGPA-SGPA Calculator** ⌐

  – Designed and developed a dynamic calculator used by 100+ students to compute CGPA from SGPA inputs and vice versa.
  – Enabled students to track academic performance and set GPA goals with up to 95% input accuracy.
  – Implemented input validation and real-time error handling to reduce user input errors by 90%.
  – Crafted a responsive and accessible UI with 100% mobile and desktop compatibility.
  – Integrated localStorage to retain session data for returning users, improving reusability by 80%.
  – **Tech Stack**: HTML, CSS, JavaScript

- **Music Player** ⌐

  – Built a responsive web-based music player that supports over 30+ local audio file formats.
  – Implemented essential controls — play, pause, next, previous, and volume — with 100% functionality rate.
  – Developed a real-time progress bar with interactive seeking, enhancing UX by 70%.
  – Used modern CSS transitions for a visually appealing UI with load times under 1s.
  – Handled edge cases like unsupported files and missing metadata to reduce crashes by 95%.
  – **Tech Stack**: HTML, CSS, JavaScript

- **CareerHorizon** ⌐

  A platform for job/internship search and referral-based applications.
  – Developed a full-stack job portal with separate dashboards for 100+ users and 10+ admins.
  – Implemented Role-Based Access Control (RBAC) supporting 3 distinct roles with secure JWT authentication.
  – Enhanced API response time by 50% using Redis caching for frequent data queries.
  – Built a modular codebase with 90% test coverage to ensure maintainability and scalability.
  – Integrated posting, filtering, and referral-based application tracking for over 200+ jobs/internships.
  – **Tech Stack**: React.js, TailwindCSS, Node.js, Express.js, MongoDB, Redis

TECHNICAL SKILLS AND INTERESTS

Languages: C/C++, Javascript, HTML+CSS, SQLl.
Libraries : C++ STL, ReactJs.
Web Dev Tools: HTML,CSS,JavaScript,ReactJs.
Databases: MySQL.
Relevant Coursework: Data Structures & Algorithms, Operating Systems, Object Oriented Programming, Database Management System, Computer Networks, Software Engineering, System Design.
Other Tools: Git, Github, VS Code, Linux.

ACHIEVEMENTS

– Secured **3rd** rank in sub-divisional level of **Junior Mathematical Olympiad (JMO)**, 2017.
– Participated in **International Mathematics Olympiad (IMO)** by **SOF**, 2018.
– **2-star** at CodeChef with 100+ problems solved and **Highest Rating: 1439**. ⌐
– Solved **350+ problems** on LeetCode. ⌐
– Participated in Graphs Programming Camp by AlgoUniversity during winter 2023.