

ANIRBAN BANERJEE

Hooghly, West Bengal, India

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Summary

Electronics and Communication Engineering graduate skilled in **C**, **C++**, **Java**, **SQL**, with strong knowledge of **DSA**, **DBMS**, and **OOPs**. Experienced in web development and simulation projects using tools like **HFSS**, **MySQL**, and **GitHub**, with proven **problem-solving** and **analytical skills**. Seeking off-campus opportunities in **software development**, **backend**, or **full-stack engineering**.

Education

Narula Institute of Technology, West Bengal, India

B.Tech in Electronics and Communication Engineering — CGPA: 8.04

Aug 2021 – Jun 2025

Uttarpara Model School (HS), West Bengal, India

Higher Secondary (Class XII) — 67%

Jun 2019 – Jul 2021

Technical Skills

Programming Languages: C/C++, Java, SQL, HTML, CSS, JavaScript

Core Subjects: Data Structures & Algorithms (DSA), Database Management Systems (DBMS), Object-Oriented Programming (OOP)

Tools & Software: GitHub, HFSS, Visual Studio Code, MySQL

Projects

Performance Optimization of Microstrip Patch Antenna with Rectangular Slot Configuration

Simulation Project — HFSS

Jan 2025 – Apr 2025

- Designed and simulated a **microstrip patch antenna** with a **rectangular slot** using **HFSS**.
- Used **Rogers RT/Duroid 5880** substrate for high-frequency efficiency.
- Achieved **20% improvement in return loss** and **15% increase in bandwidth**.
- Obtained **multi-resonant behavior** via slot size/position tuning.
- Applications: **satellite communication**, **radar**, **mobile devices**.

Hospital Management System

Web Project — HTML, CSS, SQL, PHP

May 2025 – Jul 2025

- Built a **full-stack hospital management system**.
- Implemented **role-based modules**: Admin, Doctor, Patient.
- Developed **appointments**, **patient records**, **prescriptions**.

Achievements

- Selected for the **Smart India Hackathon (SIH) 2023**, Institute Level.
- Research paper published** — ISBN: **978-93-89817-97-3a**, Page 97. [🔗](#)

Certificates

- Training on **DSA using C** — Coursera [🔗](#)
- Training on **SQL** — Geekster [🔗](#)

Interests

Team sports: Cricket, Football (**teamwork**, **leadership**).

Gaming: Strategic gameplay (**problem-solving**, **decision-making**).