

# SARTHAK ROY

6295623945 | roysarthak16@gmail.com | [Portfolio](#) ↗ | [GitHub](#) ↗ | [LinkedIn](#) ↗

## PROFESSIONAL SUMMARY

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Full-stack web developer skilled in Java, C, React.js, Next.js, Node.js, MongoDB, and SQL with strong foundations in DSA, OOP, and Operating Systems. Experienced in developing scalable applications and optimized APIs. Delivered projects that improved load times by 30%, boosted engagement by 40%, and overall 25% more efficient.

## EXPERIENCE

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### Hackathon Finalist – AI Explain (Emergency Medical Service in Rural Areas) | 2024

- Designed a tech-driven solution to improve rural medical access; project shortlisted as a finalist among national teams.

### Head – Thinking & Execution Team, E-Cell (Entrepreneurship Cell) | 2024 – Present

- Leading a team of 10+ members, driving innovation strategy, project execution, and event planning within the college's E-Cell.

### Founder – Small Business (Scented Candles) | 2021 – Present

- Established and managed a small business, gaining hands-on experience in product design, marketing, and customer growth.

## PROJECTS

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### Personal Developer Portfolio

[LINK](#)

- Designed a portfolio website using HTML, Tailwind, JS, Node.js, and MongoDB Atlas.
- Implemented animations and UI improvements, increasing engagement by 40% and getting 100+ monthly visits.

### Real-Time Location Tracking Platform

[LINK](#)

- Developed a live location-sharing app with Node.js & Socket.io, enabling users to track positions simultaneously.
- Optimized WebSocket broadcasting, achieving <200ms latency and improving efficiency by 25%.

### Password Generator Web App

[LINK](#)

- Developed a password generator using React & Tailwind CSS with customizable options for numbers and special characters.
- Implemented animated password reveal and one-click copy with a pop-up where the user can get their selected password directly in their email.

## SKILLS

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**Languages:** Java, C, JavaScript

**Front-End:** HTML5, CSS3, Tailwind CSS, React.js, Next.js

**Back-End:** Node.js, Express.js, REST APIs

**Database:** MongoDB, Mongoose, PostgreSQL

**CS Fundamentals:** Data Structures & Algorithms (DSA), Object-Oriented Programming (OOP), Operating Systems (OS)

**Tools & Platforms:** Git, GitHub, Postman, Vercel, Netlify, Render, CI/CD

## EDUCATION

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### B.Tech in Information Technology (2022 – 2026)

Bengal College of Engineering and Technology, Durgapur

### Higher Secondary Education (12th) – Science (PCMB) (2021)

West Bengal Council of Higher Secondary Education

### Secondary Education (10th) (2019)

West Bengal Board of Secondary Education