

SOUGATA KARMAKAR

BCA STUDENT

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Education

Secondary (Class X), Dumdum Kishore Bharati High School

01/2015 – 05/2021
Kolkata, West Bengal

- Completed **Class X** with **(80%)**, Explored IoT projects and foundational hardware concepts, gaining early exposure to embedded systems and basic programming, which sparked a strong interest in computer hardware and software development.

Higher Secondary (Class XII), Dumdum Kishore Bharati High School

06/2021 – 06/2023
Kolkata, West Bengal

- Completed **Class XII** with **(61.2%)**, Worked on IoT-based projects integrating hardware and software technologies, gaining hands-on experience with sensors, microcontrollers, and basic programming, which strengthened interest in the IT field.

Bachelor of Computer Applications (BCA),

Techno India Institute of Technology (2023-2027)

08/2023
Kolkata, West Bengal

- Status:** Pursuing
- Completed coursework in Data Structures, DBMS, Java, PHP, Cloud Computing, and Full Stack Development.
- Successfully completed an AWS Internship, gaining hands-on experience in cloud services, deployment, and scalable infrastructure.
- Participated in Smart India Hackathon, collaborating in a team to design and develop innovative problem-solving solutions.
- Built and deployed full-stack and AI-driven projects as part of academic curriculum and independent learning.
- Strengthened practical skills in application development, database management, and cloud-based solutions.

Profile

Highly motivated BCA student with strong proficiency in Java, C++, C, and Python, along with hands-on experience in full-stack web development using React, Node.js, HTML, CSS, JavaScript, and PHP. Possesses a solid understanding of DBMS concepts and practical exposure to cloud technologies through an AWS internship. Skilled in developing responsive web applications and writing efficient, optimized code. Eager to contribute technical expertise and problem-solving abilities to a dynamic organization while continuously enhancing professional and technical skills.

Languages

English

Fluent proficiency with regular use in coding, technical documentation, presentations, and collaborative communication.

Bengali

Used daily life for communication, teamwork, and community interactions.

Hindi

Used in academics, mentoring, and local tech community engagements.

Skills

Programming Languages: Java, C++, C, Python, JavaScript, PHP.

Frontend Development: HTML5, CSS3, JavaScript, React.js.

Backend Development: Node.js, PHP.

Database Management: DBMS, MySQL, Firebase.

Cloud & Tools: AWS (Cloud Services, Deployment Basics), Git, GitHub.

Core Concepts: Data Structures, OOPS, Database Design, REST APIs.

Hardware & IoT: IoT-based Projects, Sensors & Microcontrollers (Basic), Embedded System Fundamentals.

Professional Experience

AWS Cloud Service Training Program, Internship

02/2025 – 12/2025

Votecast – Cloud-Based Online Voting System

Techno Main, Salt Lake

- Designed and deployed a scalable online voting system using **AWS cloud services**.
- Implemented serverless backend logic using **AWS Lambda** for secure vote processing.
- Used **Amazon DynamoDB and RDS** for efficient data storage and management of voter and election records.
- Configured **Amazon S3 buckets** for secure storage of static assets and application data.
- Deployed the application on **EC2** within a properly configured **VPC** for secure networking and isolation.
- Applied **IAM roles and security policies** to ensure controlled access and data protection.
- Ensured high availability, scalability, and data integrity through cloud architecture best practices.

RKVY Internship (Rail Kaushal Vikas Yojana), Metro Railways

07/2025 – 08/2025

• Participated in skill development training under the Rail Kaushal Vikas Yojana initiative.

Kolkata, Noapara Metro
Car Shade

- Gained practical exposure to technical operations and system fundamentals.
- Enhanced technical, problem-solving, and teamwork abilities through structured training modules.
- Strengthened understanding of real-world industrial and technical environments.

Certificates

- **Secured 1st Position in the Smart India Hackathon (SIH) Internal Hackathon at Bengal Institute of Technology (BIT), demonstrating strong problem-solving and team collaboration skills. (9/25-10/25).**
- **Participated in the Google AI Gemini 2.0 Write-Off Challenge, applying generative AI concepts to develop creative and impactful solutions while enhancing prompt engineering and AI utilization skills. (11/25-12/25).**
- **Google Gen AI Academy 2.0 – Hack2Skills** Successfully completed training focused on Generative AI, prompt engineering, and building AI-driven solutions using modern AI tools and technologies. **(12/25-01/26).**

Interests

- **Cricket & Football** – Regularly follow and play team sports, enhancing teamwork, discipline, and strategic thinking.
- **Badminton** – Active engagement in racquet sports, showing competitiveness, agility, and focus.
- **Technology & Hardware Projects** – Enthusiastic about building tech projects and exploring computer hardware concepts, demonstrating curiosity, hands-on problem-solving, and continuous learning.