

## Education

**Institute of Engineering and Management**  
*Electronics and Communication, BTech 9.48 CGPA*  
**St. Stephen's School**  
*Class XII, ISC 90.4%*

**Kolkata**  
2020–2024  
**Kolkata**  
2020

## Experience

### Infosys, CMA-CGM

**Kolkata, IN**

*Software Developer, Power Programmer*

July 2024 – Present

- Developed and maintained **20+ end-to-end APIs**, including **event consumption**, **data synchronization**, and **user-facing endpoints**, contributing to a web application for **agreement management**.
- Implemented **JPA specification batching** to optimize database queries, improving query performance by **10%**.
- Built **event production pipelines** for cross-service communication and integrated a **Dead Letter Queue (DLQ)** to handle failed message deliveries encountered during **PT testing**, reducing server throughput by **15%**.
- Implemented complex business logic in **React** using **Redux**, **PrimeReact** on the frontend with integrated **authentication modules**.

### GreyB

**Mohali, IN**

*Research Analyst Internship*

Jan 2024–Jun 2024

- Identified prior art in 5G/6G patents using semantic analysis.
- Analyzed over 15 subject patents and researched more than 1500 research papers and patents.

### Online Live Learning

**Remote, IN**

*Mentor, Data Analyst Internship*

Jul 2021–Aug 2021

- As mentor, worked with more than 300 students focusing on subjects like web development, DBMS.
- Optimized content placement based on click position analysis, improving click-through rate by 15%

## Projects

### Coding Editor

Jul 2025 – Sep 2025

- Architected a secure backend infrastructure to compile and execute Java projects in isolated Docker containers, processing **500+ user submissions/week**. Stack: Spring Boot, SQL, MongoDB, Docker.
- Designed and exposed **10+ RESTful APIs** to support file change tracking, versioning, and retrieval using timestamp-based deltas.
- Built a CLI utility enabling users to programmatically manipulate file/folder hierarchies based on structured instructions; reduced manual project edits by **80%**.
- Developed a frontend editor with a custom recursive file system GUI capable of rendering **200+ nested files** in under **200ms**; supported real-time editing and persistence. Stack: React.

## Skills

**Expert:** Java, Spring Boot, React, JavaScript, SQL, Git/Terminal, Data Analysis, VS Code, IntelliJ/Eclipse

**Proficient:** C++, HTML, CSS, Jenkins, Typescript, Docker, Machine Learning

**Soft Skills:** Problem solving skills, Attention to details, Team player, Deliver results

## Awards

Infosys STG Makeathon; 9th Place

Jan 2025

IIT Bombay E-yantra Robotics Competition, Semifinalist

Apr 2023

IEEE-IEM Technical Presentation Competition, First Prize

Jul 2021–Aug 2021

## Certifications and Research Paper

Fuzzy Logic Triggered Line Ensuing Robot with Edge and Obstacle Avoidance Research Paper

Nov 2024

Optimized Brain Tumor Detection and Classification on Efficient Net B3

Nov 2024

Advanced Java Certification

Aug 2024