

# Swetashree Mal

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## SUMMARY

Final-year Electronics and Communication Engineering student at the Institute of Engineering and Management with a strong foundation in Data Structures and Algorithms (DSA) and expertise in the MERN stack. Proven ability to design and develop web applications. Completed internships that enhanced practical skills and provided real-world experience in software development.

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## PROJECTS

### ■ Accident Detection and Alert System

- Developed a system using Arduino Uno, GSM, GPS, and accelerometer to send instant alerts with exact location to police and ambulance.
- Implemented with Arduino IDE and Python to ensure timely medical assistance and reduce casualties.

### ■ ByteChat (Real-Time Chat & Video Calling App) | [LINK](#)

[GitHub](#) - [Repo Link](#)

**Technologies:** ReactJS, NodeJs, MongoDB, ExpressJs, Stream, daisyUI, Zustand

- Built a real-time chat and video calling app with ReactJS, Node.js, MongoDB, and Stream API
- Integrated WebRTC-based video calling with screen sharing, call alerts, and responsive UI using TailwindCSS + daisyUI.
- Implemented Zustand for state management and secure JWT authentication for protected routes.

### ■ Next Hire (Job Potal) | [LINK](#)

[GitHub](#) - [Repo Link](#)

**Technologies:** ReactJS, Redux, NodeJs, MongoDB, ExpressJs, Cloudinary, TailwindCSS

- Implemented JWT-based authentication and authorization for job seekers and admins to ensure data privacy and controlled access.
  - Enabled job seekers to apply for jobs, while admins can post, manage, and track job listings efficiently.
  - Integrated Cloudinary for resumes and built a responsive UI with TailwindCSS.
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## WORK EXPERIENCE

### Artificial Intelligence | CodSoft | [LINK](#)

March 2025 – April 2025

- Developed AI face detection and recognition application using pre-trained models and deep learning-based techniques successfully implemented.

### Web Development Intern | Prodigy InfoTech | [LINK](#)

March 2024 – April 2024

- Assist with coding under the direction of responsiveness, test existing code, format graphics for web use, or communicate with clients about the project.
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## SKILLS SUMMARY

- **Languages:** JavaScript, C++, C, SQL, JAVA, HTML, CSS, TailwindCSS
  - **Frameworks:** React, Redux, Redux-Toolkit
  - **Tools:** MySQL, Excel, PowerPoint
  - **Platforms:** Visual Studio Code, IntelliJ IDEA, Git Hub, Git, Linux, Windows
  - **Other Skills:** Data Structure and Algorithm, Computer Network, OOP
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## EDUCATION

**Institute of Engineering and Management** CGPA: 7.5 / 10  
Bachelor of Electronics and Communication Engineering

Kolkata, India

Sep 2022 - Aug 2026

**West Bengal Council of Higher Secondary Education**

Class 12 Stream – Science Score – 91 %

Garhbeta, Paschim Medinipur, India

April 2021 – April 2022

**West Bengal Board of Secondary Education**

Class 10 Score - 84 %

Garhbeta, Paschim Medinipur, India

Jan 2019 - Jan 2022

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## CERTIFICATES & ACHIEVEMENTS

**SMART INDIA HACKATHON 2024 (PARTICIPATION) | [CERTIFICATE](#)**

**Machine Learning Foundations: Probability | LinkedIn Learning | [CERTIFICATE](#)**

**Programming Foundations: Algorithms | LinkedIn Learning | [CERTIFICATE](#)**