

# Sabarno Biswas

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## EDUCATION

### JADAVPUR UNIVERSITY

#### BE IN ELECTRICAL ENGINEERING

2020-2024 | India

Faculty of Engineering and Technology

CGPA: 8.53/10

### HARE SCHOOL

#### HIGHER SECONDARY EXAMINATION

2018-2020 | India

Percentage: 95.60

## SKILLS

### PROGRAMMING LANGUAGES

C • C++ • Python • HTML • CSS •  
JavaScript

### FRAMEWORKS/LIBRARIES

ReactJS • Bootstrap • Chakra UI •  
NodeJS • ExpressJS • Django

### FUNDAMENTALS

Data Structures • Algorithms • Database  
Management System • Operating System

### DATABASES

MongoDB • PostgreSQL • SQL

### TOOLS/ IDES

Visual Studio • MATLAB • Postman •  
Docker

### VERSION CONTROL SYSTEM

Git • GitHub

### OPERATING SYSTEMS

Windows • Linux

## LINKS

Github: [Sabarno-15102002](https://github.com/Sabarno-15102002)

Leetcode: [Sabarno2002](https://leetcode.com/Sabarno2002)

LinkedIn: [Sabarno Biswas](#)

## ACHIEVEMENTS

- Got selected in the final round of the first edition of IEEE Region 10 Robotics competition organized in Bangkok, Thailand in December, 2022.

## EXPERIENCE

### SALESUP | SOFTWARE ENGINEERING INTERN

June, 2023 – present | Kolkata

- Worked on **Development of Chrome Extensions integrated with OpenAI api**.
- Developed automation tools to scrape website data, find specific keywords using Regex patterns and also generate brief of websites using **Puppeteer library with OpenAI api**.
- Created a tool that can verify a user provided email using various third-party service providers.
- Collaborated effectively with teams to streamline development workflows using **Git version control** and utilized **Docker to encapsulate applications and dependencies**, resulting in improved consistency and portability across various environments.
- Primarily used **NodeJs with Express framework**, experience with **Puppeteer, Langchain, KnexJS libraries and Google Sheets api and PostgreSQL database**.

### IIT KHARAGPUR | FULL STACK DEVELOPER INTERN

September 2022 – January 2023 | Remote

- Developed A web-based interactive framework where special educators teaching children with cerebral palsy can develop AAC based rendering rhymes and children stories.
- Implemented user authentication using JsonWebToken, complex schema for uploading image and audio to store rhymes in database.
- Used **HTML, CSS, JavaScript, Bootstrap, ReactJS libraries, react-speech-recognition, html2canvas** tools for Frontend and **NodeJS with ExpressJS framework** for Backend along with **MongoDB** as database and **Cloudinary** as third party cloud service for storing images.
- Organized and handle bugs and issues reported from users, continuously updated software to meet client needs.
- Website : <https://learnwithpix2023.netlify.app>

### JADAVPUR UNIVERSITY | UNDERGRADUATE RESEARCH INTERN

June 2022 – August 2022 | Kolkata

- Worked on **Human Mental Stress detection project** using physiological data. Used **Arduino Uno and AD8232 sensor** for ECG data collection and **Pan-Tompkins algorithm, Fast Fourier Transform and Support Vector Machine** for Arrhythmia detection, **CNN** for emotion detection. *Research Paper* published at conference IEEE CATCON 2022.

## PROJECT

### CHAT-O-MANIA

- Created a Full Stack Chatting App using **MERN stack**. Uses **Socket.io** for real time communication and stores user details in encrypted format in **MongoDB Database**.
- Planning to implement a end-to-end message encryption feature for users.

### CONVOLUTION-8.0

- Developed an event management website for the 8th Edition of the annual technological fest **Convolution** of Electrical Engineering Department, Jadavpur University using **HTML, CSS and JavaScript**.