

# Sourav Lahon

[+916001098923](tel:+916001098923) | [lahoncs@gmail.com](mailto:lahoncs@gmail.com) | [linkedin/lahonsourav](https://linkedin.com/in/lahonsourav) | [portfolio website](#)

## EDUCATION

### National Institute of Technology Silchar

Bachelor of Technology in Computer Science and Engineering, CGPA: 7.19

Cachar, Assam, India

2021 – 2025(expected)

## EXPERIENCE

### Microsoft - Software Engineer Intern

May 2024 – July 2024

Hyderabad, India

[Certificate](#)

- Developed a debug tool for the MSAI-UX team, **resulting in a 30% reduction in triage time**.
- Engineered features including Response Debugger, Accessibility Debugger, and Performance Analyzer, contributing to a **50% performance increase**.
- Improved code quality and development approaches based on feedback, ensuring maintainability and **scalability**.

## PROJECTS

### Assam Dress | MongoDB, Express, React, Node

[www.assamesedress.shop](http://www.assamesedress.shop)

- Launched an **E-Commerce website** to promote Assamese culture globally.
- Implemented **OTP authentication**, **password hashing**, and **recovery** using **JWT tokens**.
- Utilized **MongoDB** and **Axios/Redux** for **CRUD operations** and **login persistence**.
- Employed **Cloudinary** for image storage and **Stripe** for secure payment processing.

### Audio-Visual Speech Recognition (AVSR) | Machine Learning, Python

[ongoing](#)

- Developing a **multi-modal speech recognition system** expected to improve recognition accuracy by **25%** in noisy environments compared to traditional audio-only systems.
- Merging audio and video data streams, employing advanced **feature extraction techniques** such as **MFCCs** and **CNNs** for effective speech interpretation.
- Utilizing various **machine learning classifiers** including **SVM**, **Random Forest**, **DNN**, and **LSTM**, focusing on improving recognition rates.
- Refining feature extraction techniques, exploring **fusion methods**, and enhancing **model training** for seamless human-machine interaction.

### Portfolio Website | React, HTML, CSS

[www.lahon.in](http://www.lahon.in)

- Developed a responsive portfolio website achieving a **95% mobile responsiveness score**.
- Designed a creative navigation panel and single-page interface using **React libraries** and **CSS animations**.
- Showcased projects including a **three.js** implementation and a **Python-based 25-hour clock**.

### Doggies | Flutter

[www.doggies.github](http://www.doggies.github)

- Developed an application to display images of random dogs using **Flutter**.
- Utilized the **Dog API** to retrieve random dog images.

## TECHNICAL SKILLS

**Languages:** C, C++, Python, JavaScript, HTML, CSS

**Frameworks:** React, Node.js, Express.js, Flutter

**Developer Tools:** Git, VS Code, Linux, MongoDB

## COURSES

Operating System, Software Engineering, Object-Oriented Programming, Computer Networks, Database Management System

## CERTIFICATES

Career Essentials in Data Analysis

[Certificate by Microsoft](#)

Career Essentials in Generative AI

[Certificate by Microsoft](#)

Career Essentials in GitHub Professional Certificate

[Certificate by Github](#)

## POSITIONS OF RESPONSIBILITY

**Head of Design Team:** Led the design team for the Computer Science Society at NIT Silchar.

**Head of Music Club:** Managed and moderated the Music Club at NIT Silchar.

**Head of Battle of Bands Event:** Organized and managed cultural events at NIT Silchar.