Sourav Lahon

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EDUCATION

National Institute of Technology Silchar — Cachar, Assam, India
Bachelor of Technology in Computer Science and Engineering, CGPA: 7.21 — *2021 – 2025(expected)*

EXPERIENCE

Microsoft - Software Engineer Intern — Hyderabad, India
May 2024 – July 2024 — *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*

- 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*

- Developed a responsive portfolio website achieving a **98 % 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*

- 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, PowerBI

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.