Sourav Lahon

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EDUCATION

National Institute of Technology Silchar Cachar, Assam, India
Bachelor of Technology in Computer Science and Engineering, CGPA: 7.19 *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 **password hashing** and **recovery** using **JWT tokens**.
- Utilized **MongoDB** and **Axios/Redux** for **CRUD** operations and **login persistence**.
- Implemented **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 **machine learning classifiers** including SVM, Random Forest, DNN, and LSTM, with a focus on improving recognition rates compared to traditional audio-only systems.
- Focusing on 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 that achieved 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
- 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.