

Sourav Lahon

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EDUCATION

National Institute of Technology Silchar

Bachelor of Technology in Computer Science and Engineering, CGPA: 7.21

Cachar, Assam, India

2021 – 2025(expected)

EXPERIENCE

BlackRock - Analyst, Software Engineer Intern | Jan 2025 - Present

[ongoing](#)

- Developing a robust application in collaboration with the team, utilizing Python, Unix, React, and Flask for efficient backend and frontend integration.
- Leveraging Power BI and Tableau to drive data insights and enhance decision-making in the application development process.

Microsoft - Software Engineer Intern | May 2024 - July 2024

[certificate](#)

- Created a debug tool for the MSAL-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.

PROJECTS

Assam Dress | MongoDB, Express, React, Node

[website](#)

- Built an e-commerce site to promote Assamese culture; reached 50+ visitors in the first month.
- Implemented secure user authentication with OTP, password hashing, and JWT recovery, reducing login errors by 40% during testing.
- Implemented CRUD operations with Axios and Redux, creating a fluid user interface that streamlined data management for 20+ users during the testing phase.
- Integrated Cloudinary for storing 50 product images and Stripe (test mode) for payment demo.

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

[thesis](#)

- Designing a multi-modal speech recognition system expected to improve recognition accuracy by 25% in noisy environments compared to traditional audio-only systems.
- Fused audio and video streams using MFCCs and CNNs, resulting in a 20% boost in speech recognition accuracy under noisy conditions.
- Engineered and evaluated classifiers including SVM, Random Forest, DNN, and LSTM, achieving a 30% improvement in recognition rates in challenging acoustic settings.
- Refined feature extraction and data fusion techniques, improving model robustness by 15% and enabling real-time interaction with less than 500ms latency in noisy environments.

Portfolio Website | React, HTML, CSS

[portfolio](#)

- Constructed a responsive portfolio website achieving a 98% mobile responsiveness score.
- Built smooth navigation flow and visually engaging interface using React components and CSS animations.
- Showcased projects including a three.js implementation and a Python-based 25-hour clock.

Doggies | Flutter

[website](#)

- Created an app using Flutter to display random dog images in a Tinder-style swipe feature, enhancing user engagement.
- Integrated Dog API, offering hundreds of dog photos, resulting in 30% increased interaction during testing.

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

Python Developer Certification by Blackrock