

# BIBHAB DASGUPTA

Kolkata, West Bengal | dasguptabibhab@gmail.com | 9330377736 | LinkedIn | Github

## EDUCATION

**Indian Institute of Information Technology, Guwahati**  
Bachelor of Technology, Computer Science and Engineering

**Nov 2022 – Present**  
CGPA: 8.11/10

## TECHNOLOGIES

**Languages:** C, C++, Java, Python, JavaScript, TypeScript, HTML/CSS, Solidity, SQL

**Developer Tools:** Visual Studio Code, Postman, Git, Truffle, Web3, Zod, JWT, Maven

**Frameworks:** React, Angular, NodeJS, Tailwind CSS, ExpressJS, Recoil, Remix, Streamlit, FastAPI

**Databases:** MySQL, MongoDB

## EXPERIENCE

**Software Developer Intern, Pinggy**

**Dec 2024 - Jan 2025**

- Developed a cross-platform Java SDK for reverse localhost tunneling, integrating Pinggy's tunneling services via JNI for efficient functionality.
- Utilized Maven for modular development and ensured compatibility across Windows, macOS, and Linux.

## PROJECTS

**PassTrust: SSI Management System for Passport, Visa Verification (Ongoing)**

**2025**

- Developed a decentralized SSI management system using FastAPI for backend and Streamlit for frontend, enabling secure storage and verification of over 1,000 passports and visas on the Polygon blockchain.
- Integrated verifiable credentials (VCs) for passport and visa information, reducing manual verification time by 60% and enabling seamless online validation by over 5 government authorities globally.
- Used Polygon for scalable storage of verified credentials, ensuring integrity, privacy, and global access.

**FeelFlix: Emotion-Based Movie Recommendation System (Ongoing)**

**2025**

- Built a full-stack web app with FastAPI and React, integrating real-time emotion detection with OpenCV and DeepFace, achieving 65% accuracy and serving 500+ users with personalized movie recommendations.
- Used TMDb API, MongoDB, and cloud deployment for dynamic data, scalable storage, and responsiveness.

**Medkart: Decentralized Pharmaceutical Supply Chain Management System**

**2024**

- Developed a blockchain solution using Solidity and Truffle to ensure transparency and prevent counterfeit drugs, with over 1000 immutable transaction records accessible via a REST API.
- Designed a ReactJS interface integrated with Web3 and MetaMask, facilitating secure interactions for 50+ stakeholders and enabling real-time product authentication.
- Implemented IoT.js for real-time tracking of temperature and humidity during drug transportation, using MongoDB for scalable storage and JWT/QR for enhanced security and traceability.

**SolaneX: Platform for Purchasing Solana (SOL) in INR or USD**

**2024**

- Developed a platform using React frontend and Node.js backend to enable Solana (SOL) purchases in INR/USD with Razorpay payment integration, processing over 10,000 transactions with 99% success rate.
- Designed a RESTful API for robust backend functionality and implemented a user-friendly interface to enhance accessibility and transaction reliability.

**Sachub: IIIT Guwahati Student Activity Centre Management System**

**2023**

- Built a full-stack web application using Node.js, Express.js, and MySQL, streamlining 15+ facility bookings and event scheduling to reduce conflicts.
- Built a responsive UI with HTML, CSS, and JavaScript to improve user experience and efficiency.