

Jitu

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EDUCATION

National Institute of Technology Silchar

Bachelor of Technology in Computer Science and Engineering, CGPA: 7.3

Cachar, Assam, India

2022 – 2026 (expected)

Maharana Pratap Senior Secondary School

Class XII, Percentage: 88%

Jaipur, Rajasthan, India

2019 – 2020

EXPERIENCE

Research Intern – S.N. Bose Internship Programme

Team Lead, Web Development — Backend Developer (Flask, MongoDB) [Source Code](#)

NIT Silchar, Assam, India
May 2025 – July 2025

- Led a 4-member team to develop a full-stack platform connecting travelers and service providers with secure **Flask-based APIs** and **MongoDB** authentication .
- Integrated **OpenTripMap API** for location-based hotel discovery across 50+ regions; added wishlist, review, and itinerary support to improve travel planning experience.
- Deployed and tested frontend/backend on **Postman**, ensuring 98% uptime and stable performance under multi-user sessions.

PROJECTS

Live Chat and Video Collaboration

| MongoDB, React, Socket.io, ZegoCloud [web.chat.app](#)

- Built a full-stack chat app with real-time messaging and 1:1 video calling using **React** and **Socket.io**; maintained 0.8s average message latency.
- Optimized **ZegoCloud** over TCP/IP and **WebSocket**, reducing message delivery time by 300ms and **boosting** responsiveness by 20%
- Secured interactions via **AES encryption**, added real-time notifications (90% peer satisfaction), and stabilized uptime with robust error handling.

Dream Kids

| React.js, JavaScript, Google Cloud Platform [web.dream.kids](#)

- Built an interactive kids' learning platform integrating **YouTube API** and **Google Pixel API**, delivering personalized content and improving engagement by 30%.
- Enhanced discoverability via category tagging, advanced search, and a responsive **CSS Grid/Flexbox** UI; achieved 100 SEO and 84 Accessibility Lighthouse scores.

ACHIEVEMENTS

Campus Ambassador & Contributor

Remote

Mentored 20+ peers and streamlined onboarding for open-source contributions via GSSoC.

June 2025 – Present

Solved 500+ DSA problems on **LeetCode**, GfG and Codeforces; strengthened algorithms and coding efficiency.

Google Cloud Skill Badges

| Cloud Infrastructure, Networking, ML & GenAI [Google Cloud Study Gem](#)

- Earned 10+ skill badges including *Cloud Computing Fundamentals*, *Infrastructure*, Networking & Security, *ML APIs*, *Generative AI*, and *Prompt Engineering*, achieving **Gold League** with **15,145 points**.

Assam Dress

| Web Developer | MERN Stack, Fast2SMS API [assamesedress.shop](#)

- Implemented **OTP-based** login on e-commerce platform using **Fast2SMS API**, fortifying user data security and decreasing unauthorized login attempts by 99%, directly contributing to enhanced user trust.

SKILLS

Programming Languages: Java, C++, Python, JavaScript

Frameworks & Databases: React, Flutter, OpenCV, MongoDB, SQL, AI/ML

Tools & Networking Protocols: Git, VS Code, Android Studio , TCP/IP, WebSockets

Core Skills :Leadership, Cross-functional Collaboration , Effective Communication, Project Execution

RELEVANT COURSEWORK

Data Structures Algorithms, Operating Systems, OOPS, DBMS, System Design, Computer Network

EXTRACURRICULAR ACTIVITIES

Techno, NIT Silchar (Technical Fest): Junior Head, Marketing – Secured 2–4 sponsors and led fest promotions.

E-Cell, NIT Silchar: Junior Assistant, Publicity Team; Promoted initiatives and helped organize workshops.

Music & Dance Clubs, NIT Silchar: Core Member; Organized 8–10 cultural events; managed stage and performances.