

# Jitu Verma

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## EDUCATION

### National Institute of Technology Silchar

Bachelor of Technology in Computer Science and Engineering, CGPA: 7.14

Cachar, Assam, India

2022 – 2026 (expected)

### Maharana Pratap Senior Secondary School

Class XII, Percentage: 88%

Jaipur, Rajasthan, India

2019 – 2020

## PROJECTS

### Live Chat and Video Collaboration | MongoDB, React, Socket.io, ZegoCloud

[web.chat.app](#)

- Developed a full-stack chat application with React and **Socket.io**, enabling real-time **messaging** and **one-on-one** video calling; maintained an average message delivery latency of 0.8 seconds across ten test cycles.
- Optimized **ZegoCloud SDK** implementation with **TCP/IP** and **WebSocket**, reducing average message delivery time by 300ms, contributing to a 20% improvement in perceived application responsiveness.
- Secured communication via **AES-based encryption** and boosted engagement with (**React Hot Toast**) real-time notifications (90% peer satisfaction).
- Increased app reliability through structured error handling, reconnection logic, and consistent session management under fluctuating network conditions.

### Dream Kids | React.js, JavaScript, Google Cloud Platform

[web.dream.kids](#)

- Integrated **YouTube API** and **Google Cloud's Pixel API** to build an interactive learning platform for children, enhancing user engagement and personalized content delivery .
- Enhanced content discovery with **category tagging** and advanced search, increasing user engagement by 30%
- Designed a fully **responsive UI** using **CSS Grid** and **Flexbox**, earning a **95/100** score in Google Lighthouse for mobile performance.

### GestureDraw | Python, OpenCV, MediaPipe

[air.canvas](#)

- Built a real-time, hand gesture-based drawing application using **Python**, **OpenCV**, and MediaPipe.
- Achieved 95% recognition **accuracy** and less than 500 ms response time across 50+ test runs
- Leveraged **MediaPipe's** 21-point hand landmarks to create a responsive, touch-free interface.

## ACHIEVEMENTS

### 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

[assamesdress.shop](#)

- Contributed to an e-commerce platform by implementing **OTP-based** login for enhanced user privacy and reduced support tickets by 25%.
- Streamlined **CRUD** operations using **MongoDB** and **Redux**, boosting response time by 30%, and led debugging to elevate system stability.

Solved 500+ DSA problems on [LeetCode](#), [GeeksforGeeks](#), and [Codeforces](#)

## SKILLS

**Languages:** Java, Python, C++, Dart, JavaScript, HTML/CSS

**Frameworks and Libraries:** React, Flutter, OpenCV, MongoDB

**Databases:** SQL, MongoDB

**Developer Tools:** Git, VS Code, Android Studio, Linux

**Networking & Protocols:** TCP/IP, WebSockets, REST APIs, HTTP/HTTPS

**Soft Skills:** Leadership, Teamwork, Communication, Project Presentation, Collaboration

## COURSES

Data Structures and Algorithm, Object-Oriented Programming(OOPs), Operating System Software Engineering, Computer Networks, Database Management Systems

## EXTRA CURRICULAR

**Techno, NIT Silchar (Technical Fest) :** Junior Head, Marketing Team

**Music:** Core member, Music Club, NIT Silchar

**Dance:** Core member, Dance Club, NIT Silchar

**E-cell:** Junior Assistant, Publicity Team, NIT Silchar