

# Jitu

[+918003703865](tel:+918003703865) | [jitulalita4@gmail.com](mailto:jitulalita4@gmail.com) | [linkedin/jituverma](https://www.linkedin.com/in/jituverma) | [portfolio website](#)

## 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

NIT Silchar, Assam, India

Team Lead, Web Development — Backend Developer (Flask, MongoDB)

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](#)

- Integrated **YouTube API** and Google **Pixel API** to build an interactive kids' learning platform, increasing user engagement by 30% through personalized content delivery.
- Improved content discovery with **structured category** tagging and advanced search features, boosting user engagement by 30%.
- Designed a responsive **UI** with **CSS Grid** and Flexbox; achieved 100 SEO and 84 Accessibility scores in Lighthouse.

### GestureDraw Web | Python, Flask, MediaPipe, OpenCV, HTML, JS

[air.drawing](#)

- Developed a real-time gesture-controlled drawing application utilizing **MediaPipe** and **OpenCV**, achieving fingertip tracking accuracy within 2mm and canvas rendering speeds of 60 frames per second.
- Engineered a **Flask-powered** air drawing tool with an intuitive **UI**, enhancing user interaction and reducing latency by 40% during real-time use.
- Tested in **50+** user scenarios, achieving **seamless interaction** with sub-500ms latency and high gesture stability across varied lighting.

## 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

[assamesdress.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:** Proficient in Java, Python, JavaScript

**Frameworks & Databases:** Hands-on experience with React, Flutter, OpenCV, SQL, MongoDB

**Tools & Networking Protocols:** Skilled in Git, VS Code, Android Studio, Linux, TCP/IP, WebSockets

**Core Competencies :** Team Leadership, API Development, Secure Authentication, Communication, End-to-End Project Delivery