

Manish Kumar Jha

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Professional Summary

Full Stack Developer at Aero2Astro building web applications using the MERN stack and Next.js. Experience includes API design, database logic, and responsive UI development. Delivered features from initial development to production, including deploying applications on Azure Virtual Machines and managing media storage on AWS S3. Focused on building reliable systems that perform well in real-world usage.

Technical Skills

Languages: Java, JavaScript, Python, C++

Backend: Node.js, Express.js, REST APIs, JWT Authentication, Socket.IO

Frontend: HTML5, CSS3, React.js, Next.js, Redux, Tailwind CSS

Databases: MongoDB, MySQL

Tools & Cloud: Git, GitHub, Docker, Azure Virtual Machines, AWS S3, Postman

Professional Experience

Full Stack Developer — Aero2Astro

June 2025 – Present

Remote (India)

- Built and launched **AeroTribe**, a platform for drone professionals and GIS engineers, developed end-to-end using the MERN stack and Next.js.
- Designed a **24-hour trial flow** that allows new users to access features like **community feeds, job listings, and limited interactions**, before completing their profile and getting verified.
- Developed a **location-based project system** with map integration, allowing admins to define project areas and nearby verified users to request access based on location and skills, **reducing project costs by ~30%** and **improving completion time by ~50%** by minimizing travel and accommodation overhead.
- Created a **role-based admin panel (Operations Center)** to manage users, approvals, job postings, and project allocation with different permission levels.
- Deployed and managed the application on **Azure Virtual Machines**, and handled media storage using **AWS S3**.

Full Stack Developer Intern — Aero2Astro

September 2024 – May 2025

Remote (India)

- Contributed to building a **Drone Pilot Management System** supporting pilot onboarding, verification, and profile management.
- Developed features for **pilot profiles**, including project tracking, asset management, and flight log uploads with data extraction.
- Implemented the onboarding and admin approval workflow, supporting **200+ drone pilots** during the initial rollout.

Projects

Campus Connect (College Social & Collaboration Platform) — [GitHub](#) — [Live](#)

React.js, Node.js, Express.js, MongoDB, Tailwind CSS, Socket.IO

- Created a student platform combining social networking, collaboration, and campus utilities, supporting 150+ users.
- Added real-time collaboration features including a shared whiteboard and live code editor using Socket.IO.
- Introduced a roommate finder and marketplace, enabling students to connect and exchange items within the campus.

OJAS'X (Event Management Platform) — [GitHub](#) — [Live](#)

React.js, Node.js, Express.js, MongoDB, Tailwind CSS

- Designed and launched a full-stack event management platform serving 500+ users and processing 100+ payments via Razorpay.
- Integrated secure authentication with private routes and Redux-based state management for smooth user experience.
- Added event tracking and invoice generation features, reducing manual coordination for organizers.

Education

B.Tech in Computer Science and Engineering

Dec 2021 – May 2025

B. P. Mandal College of Engineering, Madhepura

CGPA: 8.05 / 10.0

Class XII (PCM)

May 2018 – Mar 2020

Bihar School Examination Board

Percentage: 79.2%