

Tushar Jain

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SUMMARY

Frontend focused engineering student who ships production grade web systems and MVPs with intuitive UI/UX, fast workflows, and real world usability. Delivered login-first apps, dashboards, and role-based flows for restaurant SaaS and health-tech prototypes using HTML/CSS/JavaScript with Supabase-backed auth/data, and deployed public-facing sites. Comfortable owning features end-to-end from UI build and data integration to testing and deployment while contributing as a student intern on real products.

EXPERIENCE

Co Founder & Lead Developer

VITAL HEALTH TECH (PulsePredict AI)

March 2025 - December 2025, Bengaluru, India

- website - [Link](#)
- Led the architecture and assembly of an ESP32-based wearable prototype by selecting components, configuring, and integrating systems using C and C++.
- Engineered embedded software for continuous data acquisition from SpO₂, heart rate, motion, fall detection, and GPS sensors on the ESP32 platform utilizing C and C++.
- Pioneered the development of custom RESTful APIs to streamline integration between wearable devices and cloud-based analytics platforms, supporting secure real-time health data exchange.

PROJECT

NAMMARIDE

www.nammaride.site/

- Lightweight frontend-only web app for quick ride and metro lookups; prioritizes simplicity, accessibility, and speed.
- Authored an engaging LinkedIn post highlighting NAMMARIDE's streamlined frontend MVP, showcasing quick ride and metro lookup features and emphasizing the app's accessible, user-centric design.
- linkedin [post](#)

BOOKMY SLOT – Appointment Platform for SMEs

book-my-slot-webpage.vercel.app/index.html · December 2025 - January 2026

- Developed a cost-effective appointment scheduling platform for small businesses utilizing HTML, CSS, and JavaScript to deliver responsive front-end interfaces.
- Streamlined email communication flows to improve customer appointment management through custom scripting in web technologies.
- Admin control for schedules and holidays & Google Sheets used as backend database.
- Engineered waiter application workflows that enabled efficient order intake and streamlined bill generation through integrated backend logic.
- Engineered an appointment scheduling platform featuring automated notifications, streamlined admin controls for schedule management, and seamless integration with Google Sheets to ensure consistent data accessibility across interfaces.
- details - [Link](#)

INDIGO IN-FLIGHT STREAMING SYSTEM (Air-Stream)

github.com/TusharJain-19/air-stream

- Web-based entertainment system usable without internet using Raspberry pi
- Designed for local onboard network environments.
- Responsive airline in-flight entertainment themed interface with a clean, mobile first UX built using semantic HTML5, modern CSS, and vanilla JavaScript.
- Component styles and responsive layouts across breakpoints.
- Linkedin post about project - [post](#)

Human-Supervised Dual-UUV System for Autonomous Maritime Surveillance

- Designed a human-supervised dual-UUV surveillance architecture combining autonomous acoustic detection with operator-controlled inspection.
- Analyzed detection range, localization accuracy, and underwater communication constraints using theoretical models.
- Integrated human-in-the-loop control to address safety, ethical, and operational requirements.
- link of research paper - [link](#)

EDUCATION

Bachelor of Engineering – Computer Science & Business Systems (CSBS)

BMS College of Engineering · Bengaluru, India · 2024–2028 · 9.05 / 10 (First Year)

- Semester 3 (2024–2028).

SKILLS

C, C++, Python (Academic), MATLAB (Academic), ESP32, Sensors, BLE, Arduino, HTML, CSS, JavaScript, Google Sheets as Backend