

# Tushar Jain

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[Portfolio](#)

## SUMMARY

Engineering student with hands-on experience building functional web apps, fintech prototypes, and embedded systems. Comfortable working across frontend, basic backend integration, and hardware–software interfacing. Focused on learning by building real systems, handling edge cases, and understanding how products behave beyond the happy path.

## EXPERIENCE

### Co Founder & Lead Developer

VITAL HEALTH TECH (PulsePredict AI)

March 2025 - December 2025,

- 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/](http://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](#)

### SPLIT PAYMENT

- Built a concept-level split-payment system allowing a single payment to be completed using multiple sources (e.g., UPI + Card).
- Integrated Razorpay test mode to simulate payment gateway interactions.
- Designed logic to avoid partial charges when one payment source fails.
- Explored payment flow edge cases such as retries and failure handling.
- LinkedIn post about project - [post](#)
- Git Hub repo - [link](#)

### INDIGO IN-FLIGHT STREAMING SYSTEM (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.
- LinkedIn post about project - [post](#)
- Git Hub repo - [link](#)

### 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)

(2024–2028).

## SKILLS

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