

Tushar Jain

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[Portfolio](#)

SUMMARY

Engineering student with hands-on experience developing functional web applications, fintech prototypes, and embedded systems. Proficient in frontend development, backend integration, and hardware-software interfacing. Dedicated to **learning by building** real world systems, specializing in edge case management and analyzing product behavior beyond the standard user path.

EXPERIENCE

Co Founder & Tech Lead · PulsePredict (Vital Health Tech) · Jaipur, India

Aug 2025 – Jan 2026 · Pitched at JIC Accelerator 7.0

- **Problem Discovery & Market Sizing:** Identified a critical gap in India's geriatric care market fall detection and vitals monitoring devices priced above ₹10,000 excluded the mass market. Conceptualized a sub-₹2000 solution targeting 140M+ elderly Indians.
- **Product Strategy & Validation:** Built and pitched the MVP to industry experts at JIC Accelerator 7.0. Validated the business model against 3 direct competitors, securing feedback that shaped the product roadmap and pricing strategy.
- **End-to-End Execution:** Sole builder architected the ESP32 + MPU6050 hardware stack, wrote BLE/Serial firmware, built the companion mobile app, and launched a public website. Solved critical false-positive challenges in fall detection by fine-tuning motion thresholds through iterative user testing.
- **Roadmap & Future Vision:** Designed the architecture for future integration with ABDM (National Digital Health Mission) standards, ensuring the product can scale into India's official digital health infrastructure.

Web Development INTERN at 3Skill Training

Link - [certificate](#)

PROJECT

NAMMARIDE [Live](#)

- 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.
- Coming soon on android google play store
- [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](#)

NOTES CSBS [Live](#)

- Built a web platform to centralize academic resources, eliminating fragmented access across WhatsApp and Google Classroom
- Developed a responsive frontend using React.js, enabling fast, dynamic UI with component-based architecture
- Integrated Supabase for real-time data storage, user management, and secure access to resources

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

9.08 CGPA (till 3rd sem)

(2024 - 2028)

SKILLS

Engineering: Python(Academic), C, C++, HTML, CSS, JavaScript, Google Sheets as Backend, Supabase, NEXTJS, REACT JS,

Hardware / IoT: ESP32, Arduino, BLE/Bluetooth, SpO2 & Motion Sensors, Sensor Fusion, Embedded Firmware

Tools: Git/GitHub, Google Sheets as Backend, Antigravity, Android (APK Build & Publish).