Dhruv Kumar

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Summary

Final-year Computer Science student with experience in product development, user validation, and MVP execution within an early-stage healthtech venture. Skilled in requirement structuring, unit economics, and coordinating engineering workflows to translate business problems into technical solutions. Strong foundation in DSA and full-stack development with hands-on exposure to AWS deployment and system integration. Analytical mindset focused on building scalable, user-centric products.

Skills

Product & Business: Requirement Structuring, User Validation, MVP Planning, Unit Economics, Market Research, Stakeholder Communication, Cross-functional Coordination, Structured Problem-Solving

Technical: Data Structures & Algorithms, Java, Python, JavaScript, MERN Stack, MongoDB, MySQL, Real-time Systems (WebRTC, Socket.IO)

Tools & Platforms: Git, GitHub, AWS (EC2, S3), Vercel, VS Code, Deployment Workflows, Technical Documentation

Education

Vellore Institute of Technology   Expected April 2026
Bachelor of Technology in Computer Science & Engineering (CGPA: 7.7 / 10.0)
- **Relevant Coursework:** Data Structures and Algorithms, Object-Oriented Programming, Database Management Systems

Senior Secondary Education (CBSE)   July 2020 – 2021
12th Grade (Percentage: 84%)   *Gaya, Bihar*

Experience

Sahrang MedTech Private Limited   Jul 2025 – Dec 2025
Product Development Lead   *Bengaluru, KA*
- Defined core user problem (affordable rural uroflow diagnostics) and structured MVP roadmap aligning hardware and software integration.
- Designed a subscription-based revenue model achieving up to 75% cost reduction for patients and reducing projected device cost by approximately 50% compared to existing market alternatives.
- Conducted validation discussions with doctors and stakeholders to refine pricing, workflow design, and deployment strategy.
- Coordinated across hardware (ESP32-based system) and software teams to track milestones, manage documentation, and streamline execution timelines.
- Developed and deployed product website using React.js; managed hosting via Vercel to support outreach and early traction efforts.
- Supported prototype iterations through component research, schematic reviews, and structured technical documentation for testing cycles.

Projects

Video Conferencing Web Application ⓞ   Jan 2025 – Apr 2025
MERN Stack, Real-time Web Application
- Developed a full-stack real-time video conferencing platform using MERN stack, WebRTC, and Socket.IO enabling secure video, audio, and messaging for multi-user sessions.
- Implemented backend services for authentication, meeting management, and persistent session storage using REST APIs and MongoDB.
- Designed responsive UI using React.js and Tailwind CSS ensuring connection stability, secure access control, and cross-device compatibility.

NeuroFlow AI ⓞ   Nov 2025 – Dec 2025
Real-time Conversational Web Interface
- Built a full-stack real-time conversational web application using React.js and REST APIs enabling dynamic message exchange.
- Implemented backend logic to manage conversation flow, store chat history, and support session-based retrieval.
- Integrated external AI APIs to generate contextual responses while maintaining scalable UI performance.

Extracurricular

- **Tata Data Visualization Certification (Forage)** – Completed virtual job simulation focused on data-driven decision-making, dashboard design, and business insight generation.
- **DPIIT AND Startup Karnataka Recognition (Sahrang Medtech)** – Assisted in documentation, compliance, and application processes that led to official recognition under DPIIT (Startup India) and Startup Karnataka.