

## Dev Tailor

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### Education

Bachelor of Technology, Computer Science and Engineering

Vellore Institute of Technology

*Expected April 2026*

- **CGPA:** 7.69 / 10.0
- **Relevant Coursework:** Data Structures and Algorithms, OOP, DBMS, Network Programming, Operating Systems, Cloud Computing

### Skills

- **Technical:** HTML, CSS, JavaScript, TypeScript, React, Next.js, Node.js, Express, MongoDB, SQL, Python, C++, Git, AWS, Tailwind CSS, MERN Stack
- **Leadership:** Communication, Teamwork, Analytical Reasoning, Project Planning
- **Languages:** English (Fluent), Hindi (Native)

### Professional Experience

Lit Labs | Frontend Developer

Indore, India

*July 2024 - December 2024*

- Developed 3 production web applications with PostgreSQL and Docker-based deployments, reducing release cycles by 40%.
- Optimized real estate platform database indexing, lowering query time from 2.1s to 750ms for 10,000+ daily searches.
- Built real-time crypto gaming platform supporting 1,000+ concurrent users with sub-100ms latency using WebSockets.
- Automated CI/CD pipelines with GitHub Actions and AWS, achieving 99.5% uptime.
- Collaborated with backend and UI/UX teams, improving cross-team productivity and reducing feature delivery time by 20%.

### Projects

Traffic-Sense-AI

[traffic-sense-ai-onrender.com](https://traffic-sense-ai-onrender.com)

- Real-Time Computer Vision: Integrated custom YOLOv8 architectures (FDIDH, DySample) to achieve high-precision detection and classification of vehicles in complex traffic scenarios.
- High-Concurrency Streaming Pipeline: Engineered a multi-threaded Python backend capable of processing 4+ simultaneous video feeds with optimized OpenCV buffering and low-latency MJPEG streaming.
- Full-Stack Architecture: Developed a responsive React (TypeScript) dashboard featuring dynamic data visualization (Recharts) for live traffic analytics and model performance metrics.
- Robust System Design: Implemented fault-tolerant inference workers with automatic error recovery and resource cleanup, ensuring stability during long-running sessions.

PixelPrompt — AI Text-To-Image Platform

[pixelprompt-frontend.onrender.com](https://pixelprompt-frontend.onrender.com)

- Developed MERN-based platform generating AI images in <15 seconds with 10+ interactive features.
- Designed scalable MongoDB schema with 5 collections supporting persistent history for 500+ users.
- Built 12+ secure REST APIs with secret-based environment configuration and <200ms response time.
- Implemented advanced prompt enhancement improving generation consistency across models.
- Improved frontend state management using React Context + Reducers, reducing re-renders by 30%.

### Leadership & Responsibilities

Mozilla Firefox Club — Web Development Team

- Developed official club website and event platform, increasing engagement by ~30%.
- Managed 300+ students during workshops, improving technical involvement across campus.
- Coordinated with design content teams to deliver event pages with faster updates.

### Achievements

- **Top 10 Finalist, HP Power Lab Hackathon (Jan 2025):** Built energy optimization system for HPCL with team of 4.

### Certifications

- MERN Stack Developer (SmartBridge)
- DevOps (IBM)
- NPTEL Cloud Computing (2024)