Tushar Agarwal

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Education

Bachelor's in Technology, Computer Science and Engineering **Expected May 2026**
Vellore Institute of Technology (VIT), Bhopal University, Madhya Pradesh   CGPA: 7.99/10

Skills

Technologies: C, C++, JavaScript,MySQL, PostgreSQL, MongoDB
Tools & Frameworks: HTML, CSS, Tailwind, React.js,Next.js, TypeScript, Docker

Projects

Repair Shop – *Next.js, Drizzle ORM, PostgreSQL, Kinde, Sentry, TanStack Table, Vercel*
- Built repair ticketing platform for 10 users, enabling real-time issue tracking and access management.
- Implemented passwordless login and RBAC with Kinde, reducing unauthorized access risks.
- Integrated Drizzle ORM with PostgreSQL, optimizing queries and schema validation for reliability.
- Utilized TanStack Table for dynamic data grids, improving ticket management efficiency.
- Deployed on Vercel, ensuring uptime with automated scaling.
- Configured Sentry for error tracking, cutting bug resolution time by 20%.

NeuroCheck – *Next.js, Framer, Docker, Node.js, Express.js, Vercel*
- Designed real-time epilepsy monitoring UI with medical timelines, document uploads, and seizure stats.
- Applied Framer and ShadcnCSS with REST APIs and JWT for secure, HIPAA-compliant visualization.
- Enabled real-time seizure updates using Socket.io, improving staff response times.
- Visualized seizure trends with Recharts, accelerating diagnoses performance of new patients.
- Developed scalable Node.js/Express.js backend, handling 1,000+ daily requests.
- Deployed frontend on Vercel and backend on render, achieving higher uptime and seamless updates.

Extra Circular Activities

IEEE Student Chapter Core Member, VIT Bhopal   Jul 2024 - Feb 2025
- Coordinated 5 coding events, including Beyond Level 0 hackathon with 200+ participants.
- Led development of chapter websites and event platforms using modern web tools.Deployed mobile-responsive web apps for 200+ event participants.

Smart India Hackathon – Internal Finalist   Aug 2024
- Collaborated in a 6-member team to design and develop an innovative solution for a problem statement with over 500 national submissions.
- Engineered a scalable application as a key developer, leveraging advanced algorithms to address the problem's core requirements.

SAE AeroTHON – Finalist   June 2023
- Analyzed more than ten research papers in the field of aerodynamics.
- Contributed to UAV simulation and secured a 32th rank all over India.

Additional

Languages: English, Hindi
Interests: Devops, System Design